SAMSUNG

DIGITAL VIDEO CAMCORDER

Chassis : Dragon (Delta III)

BASIC : SCD353

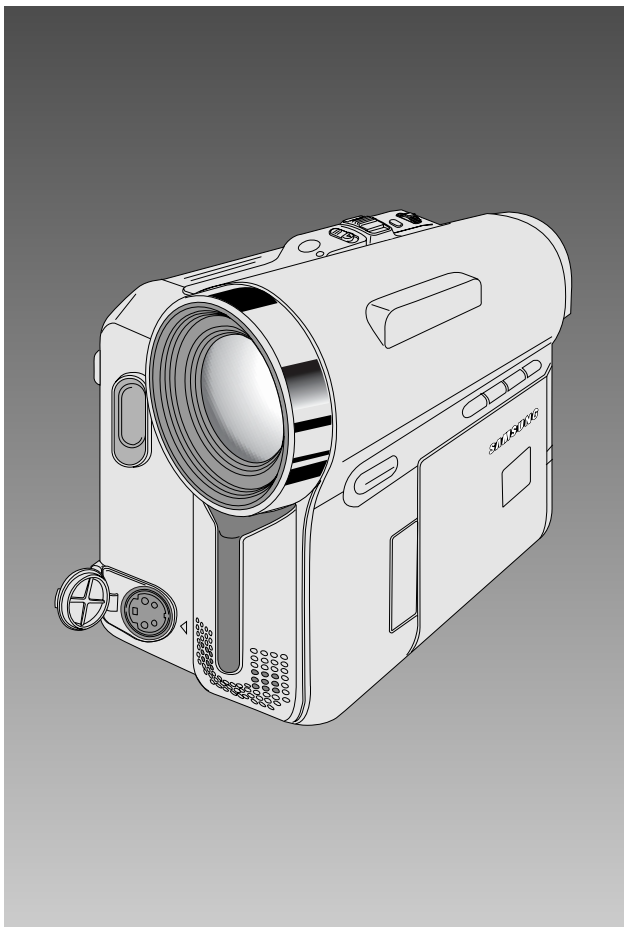
SCD353/XAA, XAO, XAC, XTC, XAX, RCL, XAP, TWN, GEN, ZAM, SAM, AFS, XBG

SCD352/XAA, XAO, XAC, XTC, XAX, RCL, XAP, TWN, GEN, ZAM, SAM, AFS, XBG

SCD351/XAA, XAO, XAC, XTC, XAX, RCL, XAP, TWN, GEN, ZAM, SAM, AFS, XBG

SERVICE Manual

DIGITAL VIDEO CAMCORDER



Merit & Character regarding Product

- Shooting Design DVC Leader
- Use Built-in Flash Memory
- Multi Memory Card Slot
- Direct Print System : PictBridge ™
- Power Nite Pix
- High quality MPEG4
- Still image Interpolation
- Real Wide mode (16:9)

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1. Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including : control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children --might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (See Fig. 1-1) :
   Warning : Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

5. With the unit completely reassembled, plug the AC line cord directly the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including : antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

6. X-ray Limits :
   The picture tube is designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original.

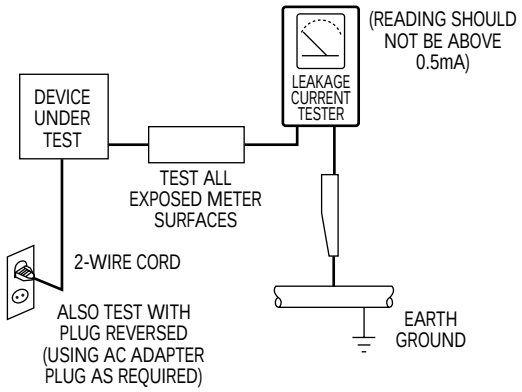

(READING SHOULD NOT BE ABOVE 0.5mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
TEST ALL EXPOSED METER SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Fig. 1-1 AC Leakage Test

7. Antenna Cold Check :
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong.
   Connect the other lead to the coaxial connector.

8. High Voltage Limit :
   High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits.

   Heed the high voltage limits. These include the X-ray protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

9. Some semiconductor ("solid state") devices are easily damaged by static electricity.
   Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

10. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging Wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

11. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

12. Design Alteration Warning :
    Never alter or add to the mechanical or electrical design of this unit. Example : Do not add auxiliary audio or video connectors.
    Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

13. Hot Chassis Warning :
    Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

    To confirm that the AC power plug is inserted correctly, do the following : Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

14. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.

15. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

16. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

17. Observe the original lead dress, especially near the following areas : Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

18. Picture Tube Implosion Warning :
    The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.

19. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.

20. Product Safety Notice :
    Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

    Components that are critical for safety are indicated in the circuit diagram by shading, (⚠ or ⚠).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

2. Product Specifications

2-1 Product Specification

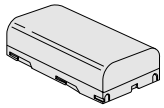
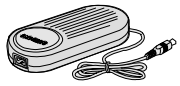
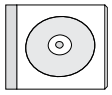
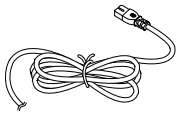
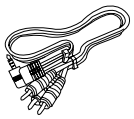
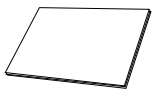
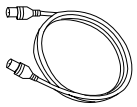
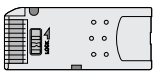
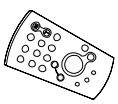
	Operation	Description
System	Video signal Video recording system Audio recording system Usable cassette Tape speed Tape recording time FF/REW time Image device Lens Filter diameter	NTSC 2 rotary heads, Helical scanning system Rotary heads, PCM system Digital video tape (6.35mm width): Mini DV cassette SP: approx. 18.81mm/s LP: approx. 12.56mm/s SP: 60 minutes (when using DVM 60), LP: 90 minutes (when using DVM 60) Approx. 150 sec. (using DVM60 tape) CCD / 680K (Still Image : 48K) F1.4 20x(Optical), 900x(Digital) Electronic zoom lens Ø30
LCD monitor/Viewfinder	Size/dot number LCD monitor Method Viewfinder	2.5inchs 112k TFT LCD B/W LCD
Connectors	Video output S-video output Audio output DV input/output USB output External mic	1Vp-p (75K terminated) Y: 1Vp-p, 75K, C: 0. 286Vp-p, 75K -7.5dBs (600K terminated) 4pin special in/out connector, Mini-B type connector Ø3.5 stereo
General	Power source Power source type Power consumption (Recording) Operating temperature Storage temperature External dimension Weight Built-in MIC	DC 8.4V, Lithium Ion Battery Pack 7.4V Lithium Ion Battery Pack, Power supply (100V~240V) 50/60Hz 4.4W(LCD), 4.0W(Viewfinder) 0˚~40˚C (32˚F~104˚F) -20˚C ~ 60˚C (-4˚F ~ 140˚F) Length 90mm, Height 110mm, Width 60mm 400g (Except for Lithium Ion Battery Pack and tape) Omni-directional stereo condenser microphone

2-2 Chassis Product Specification

Region	NTSC(America)			NTSC (Rsx)
Model cod e	D351	SC-D353	D355	VM-F730
Form at	O	MiniDV	O	MiniDV
Resolution	O	520 line	O	520 line
Zoom/Digita l Zoom	O	20x / 900x	O	20x / 900x
CCD	O	680K	O	680K
LCD	O	2.5", 112K	O	2.5", 112K
Viewfinder	O	BW	Color	BW
Audio	O	12/16b PCM	O	12/16b PCM
Image Stabili zer	O	DIS	O	DIS
IEEE1394	O	In/Out	O	In/Out
USB	O	USB2.0	O	USB2.0
USB Str eam. (For./size/F.Rate)	O	M4/VG/30f	O	M4/VG/30f
Web camera (For./size/F.rate)	O	MJ/QQ/15f	O	MJ/QQ/15f
Memory Card Slot	-	M.S. Slot	Multi Card	Multi Card
Builtin Memory	-	-	32M	16M
Memory Card	-	-	-	-
JPEG Recording Si ze to Memory	O	XGA	O	XGA
MPEG Clip Form at / size / F.Ratio	O	M4/VG/30f	O	M4/VG/30f
Continuous Shot / Im age Mix	O	T.B.D	O	T.B.D
JPEG Multi Displ ay	O	T.B.D	O	T.B.D
Light / Night Captur e / LSS	O	- / - / O	O / O / O	O/O/O
AV / S.Jack / Ext.Mic / H.phone		O/O/O/-	O	O/O/O/-
Beep Sound / Displ ay / PB Zoom	O/OSD/O	O/GUI/O	O	O/GUI/O
Multi Lang./ Batt. Ch eck/Instant On	O	O/O/O	O	O/O/O
Analog In	O	-	O	O
Remoc on / Acces sory Shoe	O	- / -	O / -	O/X
Battery Pack	O	T.B.D	O	T.B.D
Carrying Case / Tape	O	Opt./Opt.	O	Opt./Opt.
S-Cable / Scart Jack	O	- / -	O	-/-
Acces sory Comment	O	-	O	-

Region	PAL (Europ e)			
Model cod e	D351	D352	VP-D353	D355
Form at	O	O	MiniDV	O
Resolution	O	O	520 line	O
Zoom/Digita l Zoom	O	O	20x / 900x	O
CCD	O	O	800K	O
LCD	O	O	2.5", 112K	O
Viewfinder	O	O	BW	Color
Audio	O	O	12/16b PCM	O
Image Stabili zer	O	O	DIS	O
IEEE1394	O	O	Out	O
USB	No	O	USB2.0	O
USB Str eam. (For./size/F.Rate)	No	O	M4/VG/25f	O
Web camera (For./size/F.rate)	No	O	MJ/QQ/12.5f	O
Memory Card Slot	No	No	M.S.	Multi Card
Builtin Memory	-	-	-	64M
Memory Card	-	-	-	-
JPEG Recording Si ze to Memory	No	No	XGA	O
MPEG Clip Form at / size / F.Ratio	No	No	M4/VG/25f	O
Continuous Shot / Im age Mix	No	No	T.B.D	O
JPEG Multi Displ ay	No	No	T.B.D	O
Light / Night Captur e / LSS	-/-/O	-/-/O	O/O/O	O
AV / S.Jack / Ext.Mic / H.phone	O	O	O/O/O/-	O
Beep Sound / Displ ay / PB Zoom	O/OSD/O	O/OSD/O	O/GUI/O	O
Multi Lang./ Batt. Ch eck/Instant On	O	O	O/O/O	O
Analog In	O	O	-	O
Remoc on / Acces sory Shoe	X/X	X/X	O/X	O
Battery Pack	O	O	T.B.D	O
Carrying Case / Tape	O	O	Opt./Opt.	O
S-Cable / Scart Jack	O	O	Opt./Opt.	O
Acces sory Comment	O	O	-	O

2-3 Accessories Supplied with Camcorder

Accessories	Description	Part No	Remark	Accessories	Description	Part No	Remark
	1. Lithium Ion Battery Pack	AD43-00136A AD43-00146A	Basic Accessories		8. USB Cable	AD39-00073A	Basic Accessories (SCD352/ D353/D354/ D355 only)
	2. AC Power Adapter (AA-E8 TYPE)	AD44-00090A	Basic Accessories		9. Software CD	AD43-00128A	Basic Accessories (SCD352/ D353/D354/ D355 only)
	3. AC Cord	AD39-00076A	Basic Accessories		10. Lens Cover	AD97-07354B	Basic Accessories
	4. Audio/Video Cable	AD39-00001A	Basic Accessories		11. Lens Cover strap	AD72-00049A	Basic Accessories
	5. Instruction Book	AD68-00839B	Basic Accessories		12. S-Video Cable	AC39-42001Z	Optional Accessories
	6. Lithium Battery (CR2025)	AD43-10130H	Basic Accessories		13. Memory Stick	1109-001221	Optional Accessories
	7. Remote Control	AD59-00085A	Basic Accessories (SCD354/ D355 only)				

3. Alignment and Adjustment

3-1 VCR Adjustment

3-1-1 Adjustment Preparation

1) Before you start

❶ Use the buttons on the CAMCORDER when adjusting VCR.
❷ When changing the adjustment item, please press the “EASY-Q” and “DISPLAY” buttons on the CAMCORDER.
❸ The adjustment value can be changed by moving the “MENU Selector” Left or Right.
❹ Press the “MENU Selector” to store each adjustment into EEPROM.
❺ The OSD shows “OK” after finishing each adjustment step.
❻ In order to exit the adjustment mode, disconnect the power source.

2) Function of each buttons on the Set Key

<Table 3-1>

Buttons	Description
MENU Selector push (Confirm)	Stores changed value in the adjustment and auto adjustment mode.
MENU Selector Right (Data Down)	Changes data in the adjustment state.
MENU Selector Left (Data Up)	
EASY-Q (Mode Up)	Changes mode.
DISPLAY (Mode Down)	

3) How to get into the VCR adjust mode

[STEP 1]

❶ Connect the Power source.
❷ Set the Power Switch to “PLAYER” position and Mode Switch to “TAPE” position.

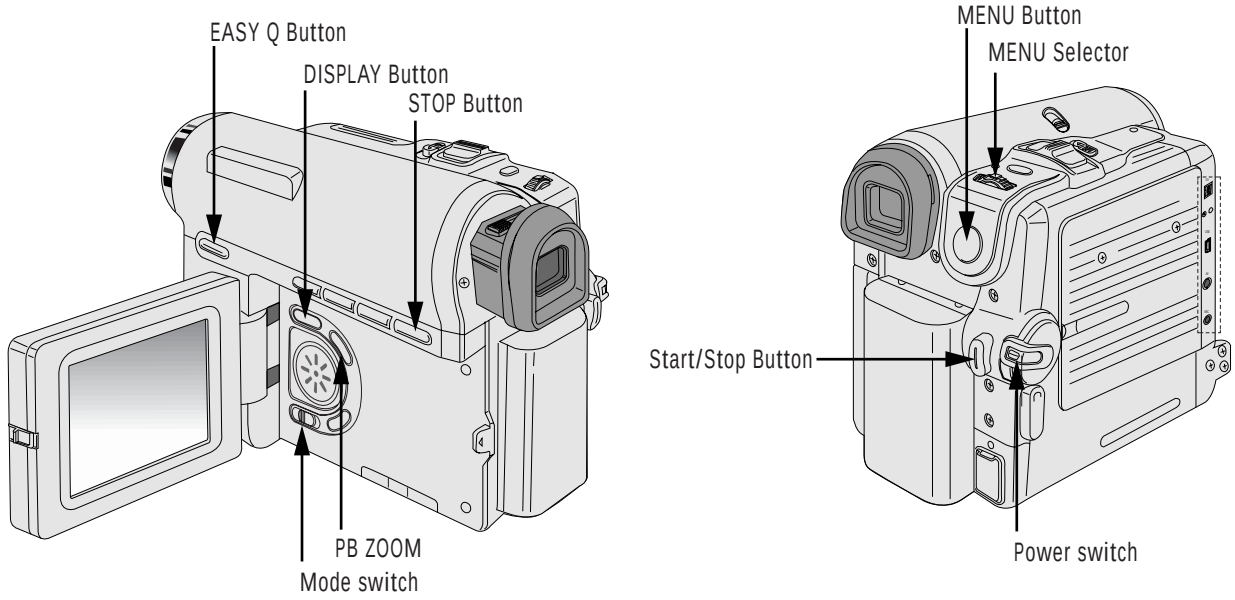


Fig. 3-1

[STEP 2]

❶ Press and hold the "STOP" and "PB ZOOM" buttons on the video camera at the same time for more than 5 seconds.
❷ When monitor OSD appears as shown Fig. 3-2, the adjustment mode has been activated successfully.
❸ Move the “MENU Selector” to highlight VCR ADJ and push the “MENU Selector”.
❹ Monitor OSD shows Fig. 3-3.
Then VCR adjustment mode has been activated successfully.

[STEP 3]

In order to complete the adjustment the power must be reset.
This can be done by disconnecting and reconnecting the power source.

Fig. 3-2

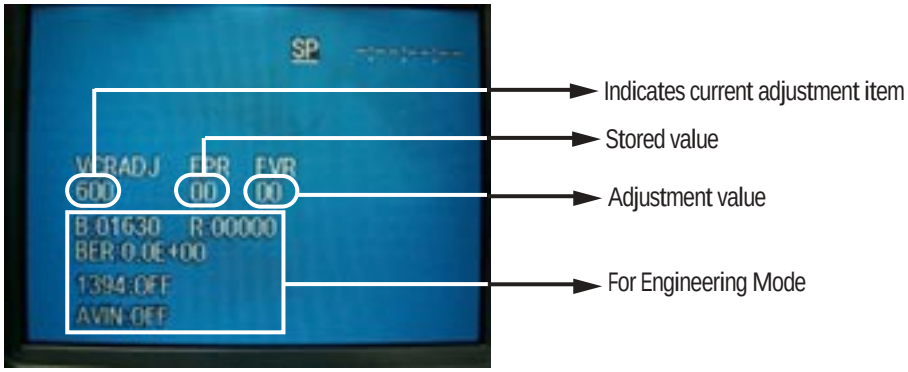


Fig. 3-3

3-1-2 VCR Adjustment

Note : This is the only electronic adjustment for the VCR.
Other addresses have already been assigned data during the manufacturing process.
We don’t need any adjustment for those addresses.

<Table 3-2>

Mode(Address)	Name	Value	Description
61F	SWP Position	8C	Head Switching Position Adjust

❶ Get into VCR ADJUST mode.
❷ Move to the VCR ADJUST address “6IF”.
❸ Play standard tape, and “Head Switching Position” will be adjusted automatically (within 5 Seconds).

3-2 Camera Adjustment

Note : How to adjust the camera system.

1) EEPROM stores confirmed adjustment value of each adjustment step.

2) DSP (Digital Signal Process : ICM01-Main PCB) digitalizes the camera signal.

3) When changing IC505-Main PCB of EEPROM, readjust Main PCB.
While changing LCD PCB and CVF PCB- always readjust each part.
Since EEPROM stores confirmed adjustment value of each adjustment step, readjusting must be performed in order to store the changed data.

4) Adjust the following items after changing LENS Ass'y.
- ❶ **Lens Zoom Track**
- ❷ **Auto HALL**
- ❸ **Auto IRIS**

5) Adjust the following items after changing EEPROM and Camera Main PCB.
- ❶ **Lens Zoom Track**
- ❷ **Zoom VR Center**
- ❸ **Auto HALL**
- ❹ **Auto IRIS**
- ❺ **Auto White Balance (indoor)**
- ❻ **Auto White Balance (outdoor)**

3-2-1 Adjustment Preparation

1) Before you start

❶ Use the buttons on the CAMCORDER when adjusting Camera.
❷ When changing the adjustment item, please press the "EASY-Q" and "DISPLAY" buttons on the CAMCORDER.
❸ The adjustment value can be changed by moving the "MENU Selector" Left or Right.
❹ Press the "MENU Selector" to store each adjustment into EEPROM.
❺ The OSD shows "OK" after finishing each adjustment step.
❻ In order to exit the adjustment mode, disconnect the power source.

2) Function of each buttons on the Sst Key

<Table 3-3>

Buttons	Description
MENU Selector push (Confirm)	Stores changed value in the adjustment and auto adjustment mode.
MENU Selector Right (Data Down)	Changes data in the adjustment state.
MENU Selector Left (Data Up)	
EASY-Q (Mode Up)	Changes mode.
DISPLAY (Mode Down)	

5) How to set up the camera adjustment mode

[STEP 1]

❶ Connect the Power source.
❷ Set the Power Switch to “CAM” position and Mode Switch to “TAPE” position.

[STEP 2]

❶ Press and hold the "STOP" and "PB ZOOM" buttons on the video camera at the same time for more than 5 seconds.
❷ When monitor OSD appears as shown Fig. 3-5, the adjustment mode has been activated successfully.
❸ Move the “MENU Selector” to highlight CAM ADJ and push the “MENU Selector”.
❹ Monitor OSD shows Fig. 3-6.
Then Camera adjustment mode has been activated successfully.

[STEP 3]

In order to complete the adjustment the power must be reset.
This can be done by disconnecting and reconnecting the power source.

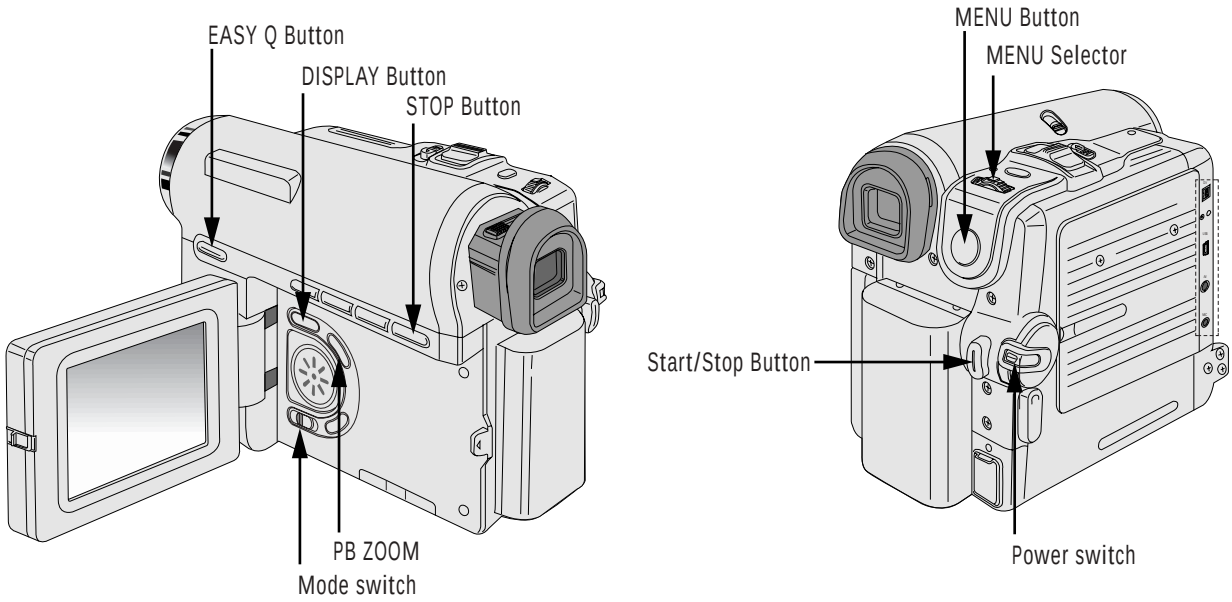


Fig. 3-4

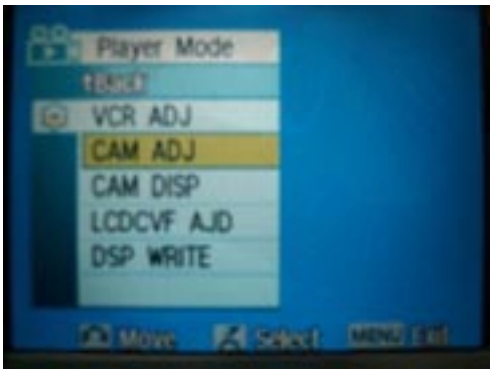


Fig. 3-5

3-2-2 Camera Adjustment

Note : "XX XX" indicate the previous preset value and adjusted value.
Press the “MENU Selector” (Confirm) to store the adjusted value.

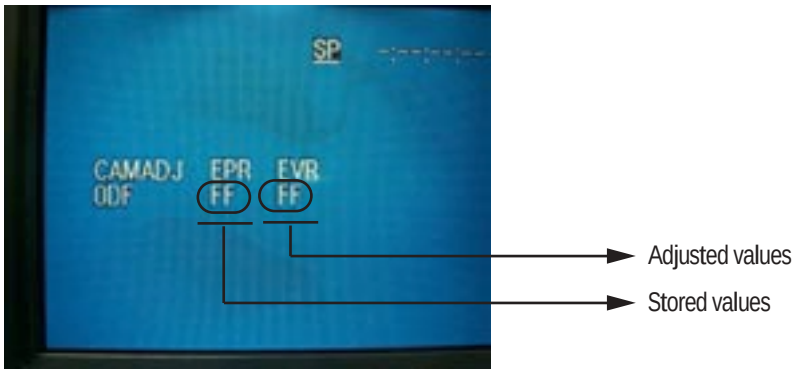


Fig. 3-6

1) EEPROM Data Initialize

Caution : These adjustments must be done when installing a new EPROM (IC105) or Main PCB.

❶ Press the “EASY-Q”(Mode Up)/”DISPLAY”(Mode Down) buttons until CAMADJ displays “0DF XX XX”.
❷ Use the “MENU Selector” (Data Up/Down) until the display data for EVR is “A0”.
❸ Press the “MENU Selector” (Confirm).
❹ The OSD shows “OK” after finishing the initalize.

2) Lens Zoom Track

Caution : For whole zoom range, it shall be in focus.
The location of a focus lens is moving depending on the location of Zoom Lens.
During adjusting, micom measures the focus location from a near distance to a long.

❶ Camera is set to E-E mode.
❷ Focus chart photo.
❸ Center the camera about 3m from a focus chart which, should be placed on a flat surfaced white or gray wall.
❹ Connect the video output terminal to a TV.
❺ Press the “EASY-Q” (Mode Up)/”DISPLAY” (Mode Down) buttons until CAMADJ displays “0DE XX XX”.
❻ Press the “MENU Selector” to begin adjustment.
The camera must be kept still when adjusting the zoom and focus lens.
If you don’t have any chart, you can use the object which has a lot of vertical line.
The OSD shows “OK” after finishing the adjustment.
(The word “OK” is displayed for only a fraction of a second.)

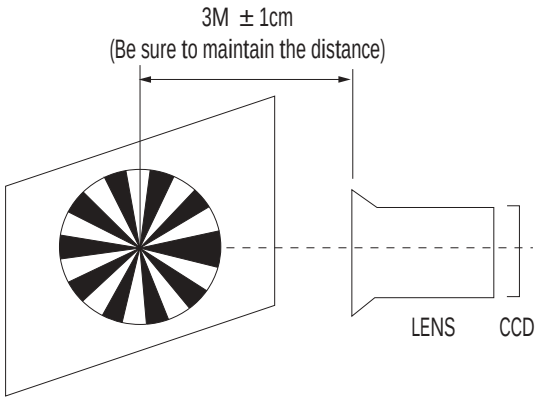


Fig. 3-7

3) Zoom VR Center

❶ Connect a video output terminal to a TV.
❷ Press the “EASY”(Mode Up)/”DISPLAY”(Mode Down) buttons so that OSD shows “0D6 XX XX”.
❸ Press the “MENU Selector” (Confirm).
❹ Then Micom finds out Zoom VR center position.
Store Zoom VR center value in OB7.

4) Auto HALL

❶ Connect a video output terminal to a TV.
❷ Press the “EASY-Q”(Mode Up)/”DISPLAY”(Mode Down) buttons so that OSD shows "0CD XX XX".
❸ Press the “MENU Selector” (Confirm).
❹ Then micom finds out max. Hall value with an iris opened and min. Hall value with an iris closed.
Store max. and min. value of Hall in OAD and OAC respectively.
❺ The OSD shows “OK” after finishing the adjustment.
(The word “OK” is displayed for only a fraction of a second.)

5) Auto IRIS Level

❶ Connect a video output terminal to a wave form monitor and a TV.
❷ Press the “EASY-Q”(Mode Up)/”DISPLAY”(Mode Down) buttons so that OSD shows "0CE XX XX".
❸ Press the “MENU Selector” (Confirm).
❹ Then micom finds out max. Hall value with an iris opened and min.
Hall value with an iris closed. Store max. and min. value of in 00BC, 00BD and 00BB respectively.
❺ The OSD shows “OK” after finishing the adjustment.
(The word “OK” is displayed for only a fraction of a second.)

6) Auto White Balance (indoor)

❶ Camera mode & 3100˚K gray scale chart.
❷ Connect a video output terminal to a vectorscope and a TV.
❸ Press the “EASY-Q”(Mode Up)/”DISPLAY”(Mode Down) buttons so that OSD shows "0D4 XX XX".
❹ Ensure that camera picks up image 40μs on 3100˚K gray scale chart precisely and the illumination is 1500~2000 Lux.
❺ Press the “MENU Selector” (Confirm) to ensure that white spot on a vectorscope is moving in the middle of screen.
❻ The OSD shows “OK” after finishing the adjustment.
(The word “OK” is displayed for only a fraction of a second.)

7) Auto White Balance (outdoor)

❶ Camera mode & 5100˚K gray scale chart.
❷ Connect a video output terminal to a vectorscope and a TV.
❸ Press the “EASY-Q”(Mode Up)/”DISPLAY”(Mode Down) buttons so that OSD shows "0D5 XX XX".
❹ Ensure that camera picks up image 40 μs on 5100 gray scale chart (3100 gray scale chart + C16 filter) precisely and the illumination is 1500~2000 Lux.
❺ Press the “MENU Selector” (Confirm) to ensure that white spot on a vectorscope is moving in the middle of screen.
❻ The OSD shows “OK” after finishing the adjustment.
(The word “OK” is displayed for only a fraction of a second.)

3-3 Deck Adjustment

3-3-1 Operation Without Housing Assembly

1) Remove the Housing Ass'y from the Deck Ass'y.
2) Connect the Mechanical Chassis to the recorder circuit to supply voltage.
3) Set to Unload mode.
4) Press the S/W Push (Keep ON status)to start loading, and push the PLAY Key.
(Cover the Top/End sensor with black tape, because they do not operate.)

Note : For the removal of the Housing Ass'y refer to 4-2-2 (page 4-7).

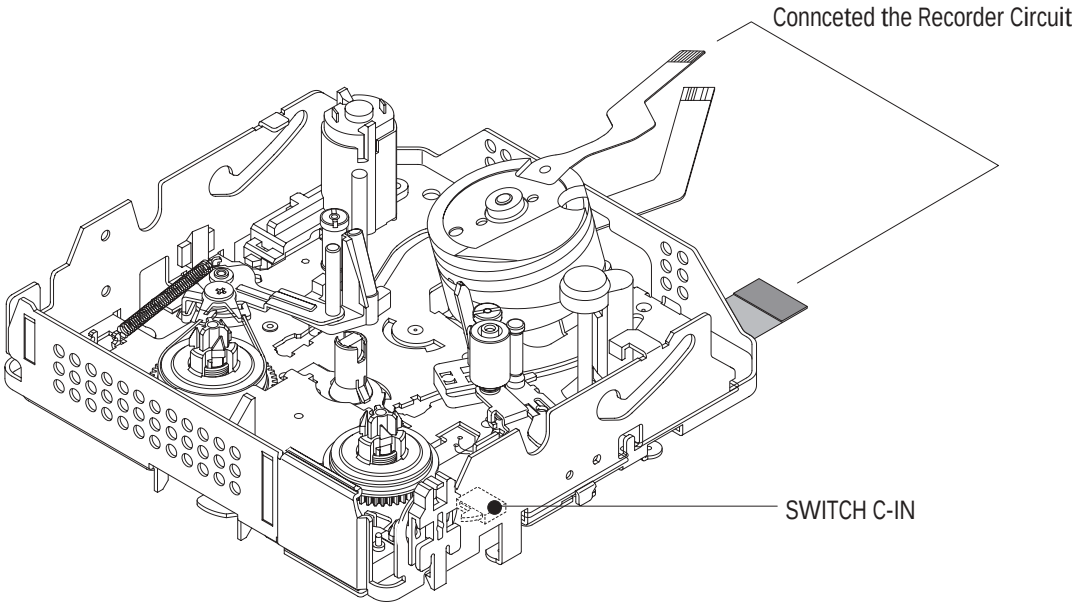


Fig. 3-8

3-3-2 Setting Mechanical Mode (Without Recorder Circuit)

1) Set the power-supply output to approx. 3V~5V.
2) Choose the polarity (depending on whether loading or unloading).
3) Supply the voltage to the Motor Loading, and set to the desired mode.

<Table 3-4>

Ⓐ	Ⓑ	Movement of Chassis
+	-	Unloading
-	+	Loading

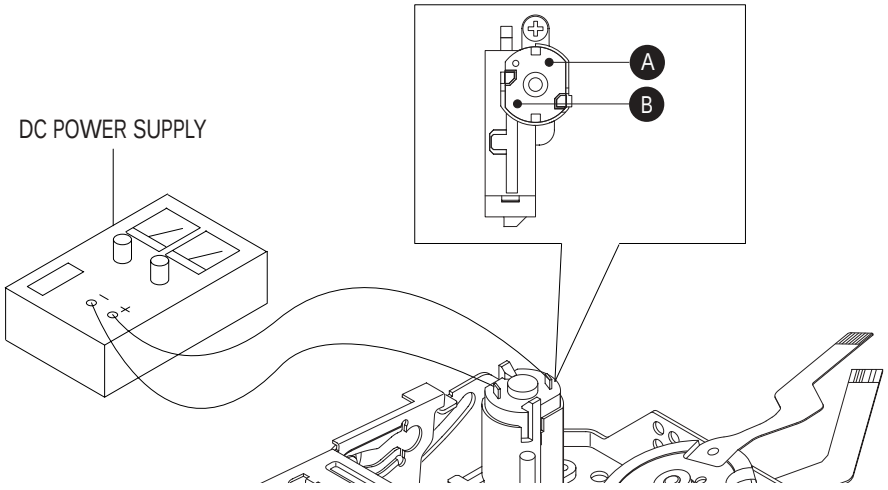


Fig. 3-9

3-3-3 Maintenance

Carry out the following periodic maintenance checks in order to fully exercise all functions, operations and tape. After repairing, service the set as follows:

1) Cleaning of Drum Assembly

❶ Gently apply lens tissue soaked in ethyl alcohol to the Drum assembly.
Clean the Upper Drum assembly while rotating it slowly counterclockwise(by hand).

Note : Do not rotate the motor by power or rotate the Upper Drum assembly clockwise.
Also, the Head tip will be damaged if the lens tissue is moved in a perpendicular direction.
Be sure to follow these instructions when cleaning the Drum Ass'y

2) Cleaning of Tape Path

❶ In EJECT mode, clean the tape path system(from Pole Tension P1 through Pole Review P9, Pinch Roller and Capstan Shaft) and the Lower Drum. Using the lens tissue soaked in ethyl alcohol.

Note : Make sure that no oil or grease adheres to the lens tissue.

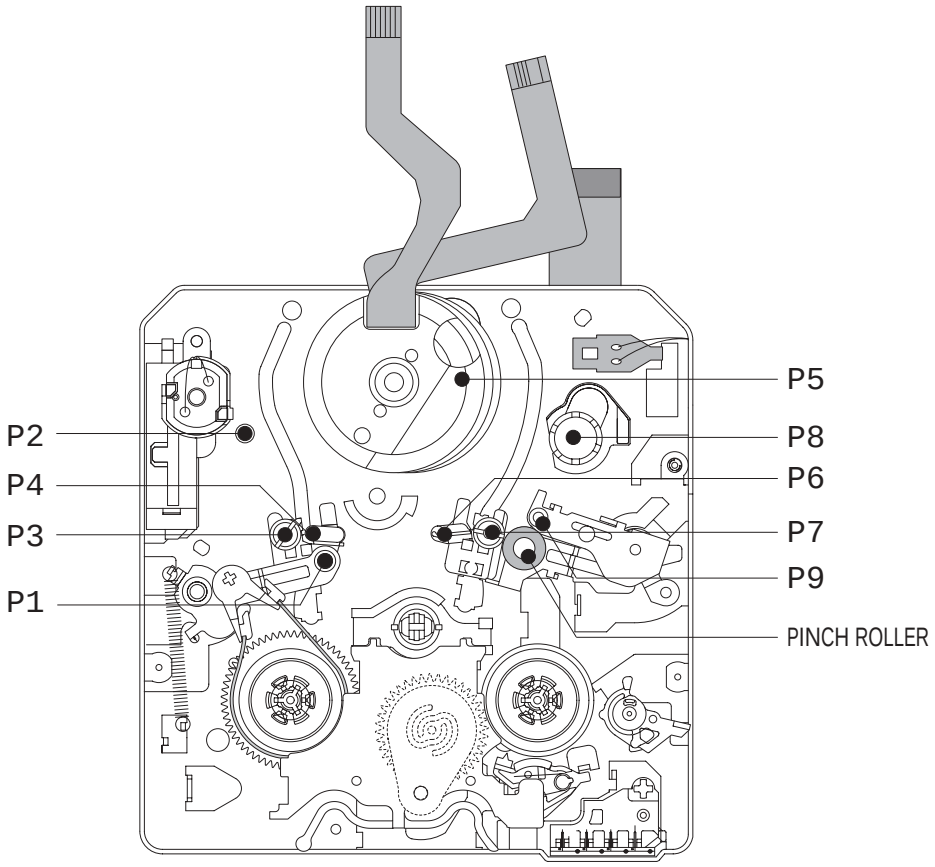


Fig. 3-10

3) Periodic Maintenance and Check List

When overhauling, refer to the following table.

<Table 3-5>

Maintenance checks		Hours of use (H)										Remark
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	
Tape path system	Cleaning of tape path	O	O	O	O	O	O	O	O	O	O	
	Cleaning and degaussing of drum ass'y	O	O	O	O	O	O	O	O	O	O	
DRIVING SYSTEM	Capstan Shaft		O		O		O		O		O	- Never let oil get on to the tape path surface.
	Gear Capstan		O		O		O		O		O	
	Gear Pully Shaft		O		O		O		O		O	
	Belt Timing		T		T		T		T		T	
	Motor Loading		T		T		T		T		T	
Perform-ance	Abnormal Noise		T	T	T	T	T	T	T	T	T	
Confir-mation	Back Tension		T		T		T		T		T	
	Brake System		T		T		T		T		T	
	PB, REV Torque Measurement		T		T		T		T		T	

O : Cleaning æ : Oil T : Confirmation

T When lubrication bearings, be sure to keep the oil free of dust. (Oil contaminated with dust might cause the bearings to wear out or seize.)

T A “drop”of oil is defined as the amount attached to the tip of a Ø 2mm stick as shown in Fig. 3-11.

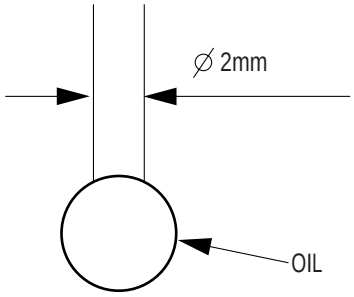


Fig. 3-11

3-3-4 Mechanical Check and Adjustment

3-3-4(a) Tension Regulator Adjustment

1) Disassembly

❶ For the removal of the Housing Ass'y refer to 4-2-2 (page 4-7).

2) Adjustment

❶ Set to PLAY mode (without cassette tape).

❷ Check that the distance between external surface of Holder Loading and extenal diamater of Arm Tension is 1±0.5mm. (Fig. 3-12)

❸ If necessary, proceed to step 4.

❹ If the Arm Tension ❶ is located inside (or right) the position specified, adjust the Cap Adjust ❶ toward arrow "A". (If it is located outside (or left), adjust toward arrow "B".)

Note : Check if the Arm Tension can be moved toward arrow "C" in PB mode.

3) Reassembly

❶ For the removal of the Housing Ass'y refer to 4-2-2 (page 4-7).

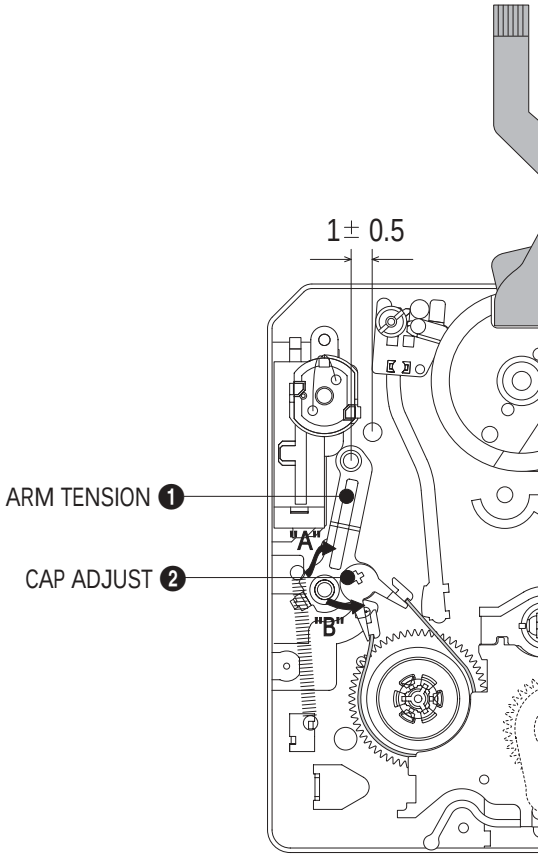


Fig. 3-12

3-3-4(b) Back Tension Confirmation

1) Set up the cassette-torque tape.
2) Set to CAMERA mode, push the EDIT(+) KEY and check that the torque value of Reel S is 4±1g.cm.
3) If necessary, proceed to step 4.
4) If the Tension value is Low specified, moved to toward “a”.
   If the Tension value is High specified, moved to toward “b”.

Reference : After changed, insert Cassette torque tape and confirm torque value.

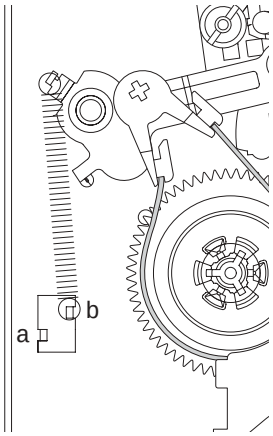


Fig. 3-13

3-3-4(c) PB/REV Torque check

1) Set up the cassette torque tape.
2) Set to CAMERA mode, Push the EDIT(+) button and check that the torque value of Reel T is 9.5±3.5g.cm.
3) Push the EDIT(-) button and check that the torque value of Reel S is 15±4g.cm.
4) If necessary, replace the defective Reel Disk S, T Ass’y.

3-3-4(d) Reel Table Height Check

1) Removal

❶ For the removal of the Housing Ass’y refer to 4-2-2 (page 4-7).
❷ For the removal of the Idler Ass’y refer to 4-2-3 (page 4-8).

2) Check

❶ Using vernier calipers, check the following distances : From the upper surface of the Main Chassis to the resting surfaces of Reel S, T table should each be 3.9±0.15mm.

3) Mounting

❶ For the removal of the Idler Ass’y refer to 4-2-3 (page 4-8).
❷ For the removal of the Housing Ass’y refer to 4-2-2 (page 4-7).

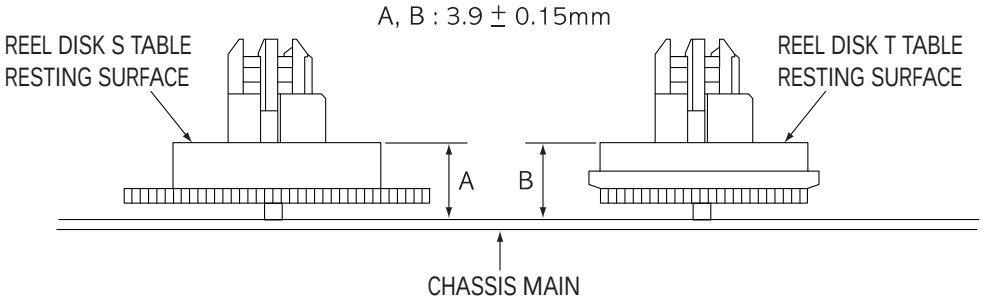


Fig. 3-14

3-3-5 Tape Path Adjustment

3-3-5(a) Preparation for Adjustment

❶ Clean the tape running surface (Poles, Drum, Capstan Shaft, Pinch Roller).
❷ Observe the PB RF signal and Head Switching Pulse on an oscilloscope.
❸ Play back the alignment tape.
❹ Check that the waveform of the RF signal is flat at both inlet and outlet(A in Fig. 3-15).
If not flat (B or C in Fig. 3-15), do adjustments 3-3-5(b) through 3-3-5(d).

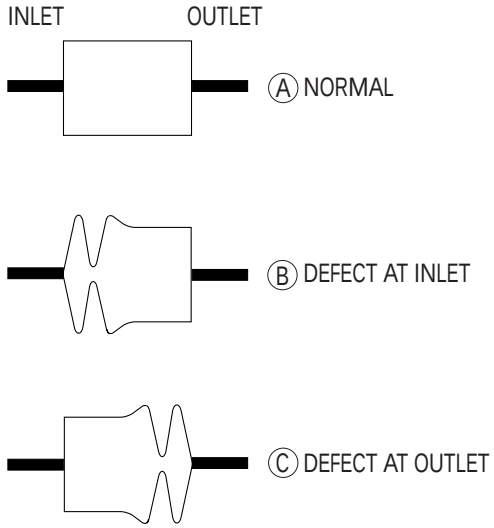


Fig. 3-15

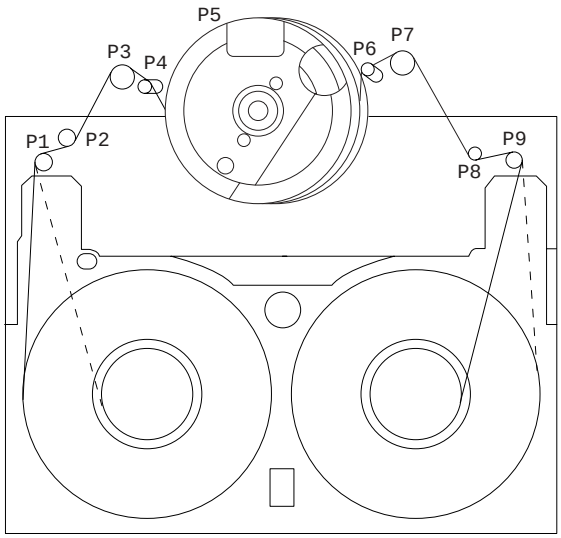


Fig. 3-16

3-3-5(b) Tracking adjustment

❶ Play Back the alignment tape.
❷ Turn P3 to flatten the waveform at the inlet.
❸ Turn P7 to flatten the waveform at the outlet.

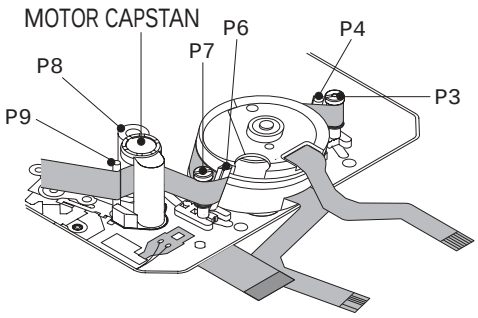


Fig. 3-17

3-3-5(c) Take Up Path Adjustment

❶ Play back the alignment tape, and confirm that the tape is not twisted between the Guide Roller T and Capstan. (Fig. 3-17)
❷ Set to REV mode and observe the outlet waveform of PB RF signal. (Fig. 3-18)

NOTE : If the outlet waveform is out-of-spec, replace the Arm Review or the Arm Pinch Ass'y, and redo steps 1 and 2.

Fig. 3-18

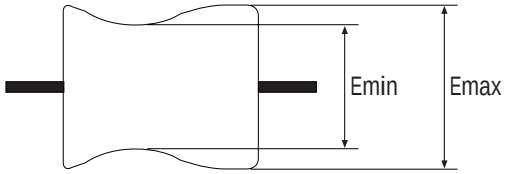
3-3-5(d) Check After Adjustment

1) Tracking Check

❶ Playback the alignment tape.

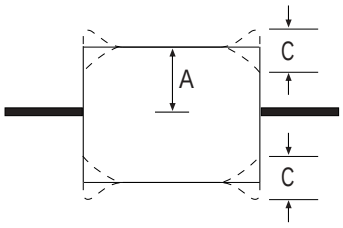
❷ Confirm that the minimum amplitude value(E min.)is 80% of the maximum value(E max.) or larger. (Fig. 3-19)

❸ Confirm that no large fluctuation occur on the waveform. (Fig. 3-20)



$$\frac{Emin}{Emax} \geqq 80(\%)$$

Fig. 3-19



$$C \leqq \frac{1}{8} A$$

Fig. 3-20

2) CUE and REV Check

❶ Playback the alignment tape, and set to REV mode.
Confirm that the waveform peaks have a uniform Pitch. (Fig. 3-21 A)
If the track pitch is not uniform, do section 3-3-5(b) (Tracking adjustment).

❷ Set to CUE mode.
Confirm that the waveform peaks still have a uniform pitch. (Fig. 3-21 B)
If the track pitch is not uniform, do section 3-3-5(b) (Tracking Adjustment).

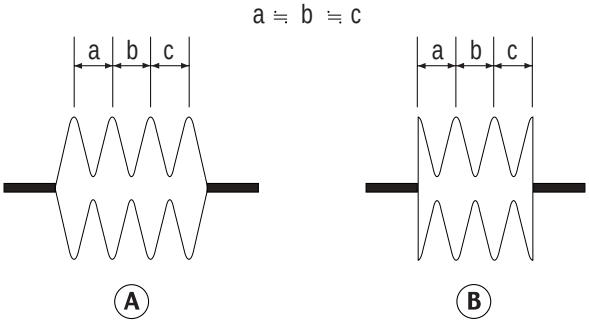


Fig. 3-21

3) Rise Time Check

❶ Playback the alignment tape.

❷ Set to playback mode, and confirm that the waveform of PB RF signal rises flat within 3 seconds. Also confirm that the tape is not twisted or curled around the Pinch Roller. (Fig. 3-23)

❸ Run the tape in CUE/REV and FF/REW modes, then playback. Confirm the waveform of PB RF signal rises flat within 3 seconds. Also confirm that the tape is not twisted or curled around the Pinch Roller.

❹ Repeat steps 2. and 3.

4) Tape Path Check

❶ In CUE and REV modes, check that the tape is not curled around the P3, P7 upper flange and P9 upper/Lower flanges.

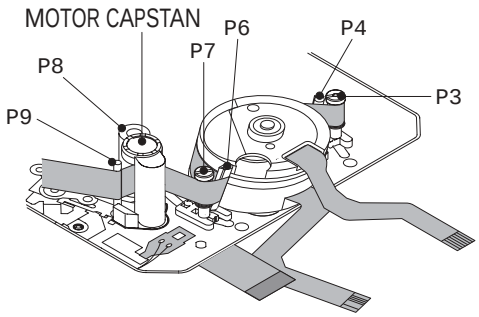


Fig. 3-22

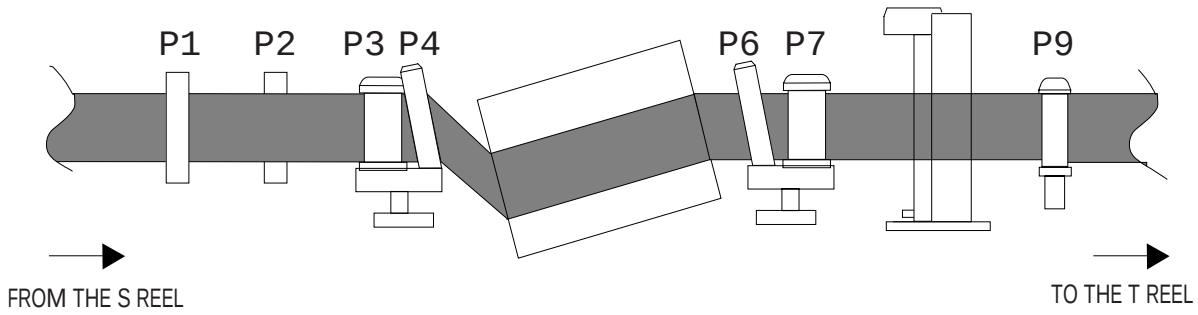


Fig. 3-23

4. Disassembly and Reassembly

4-1 Cabinet and PCB

4-1-1 Ass'y Zoom Removal

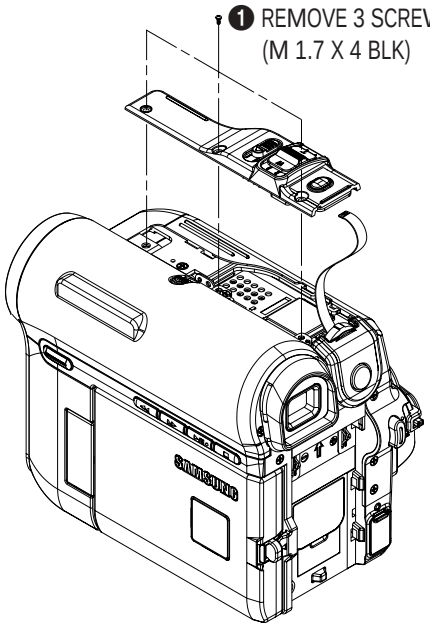


Fig. 4-1 Ass'y Zoom Removal

4-1-2 Ass'y Front Removal

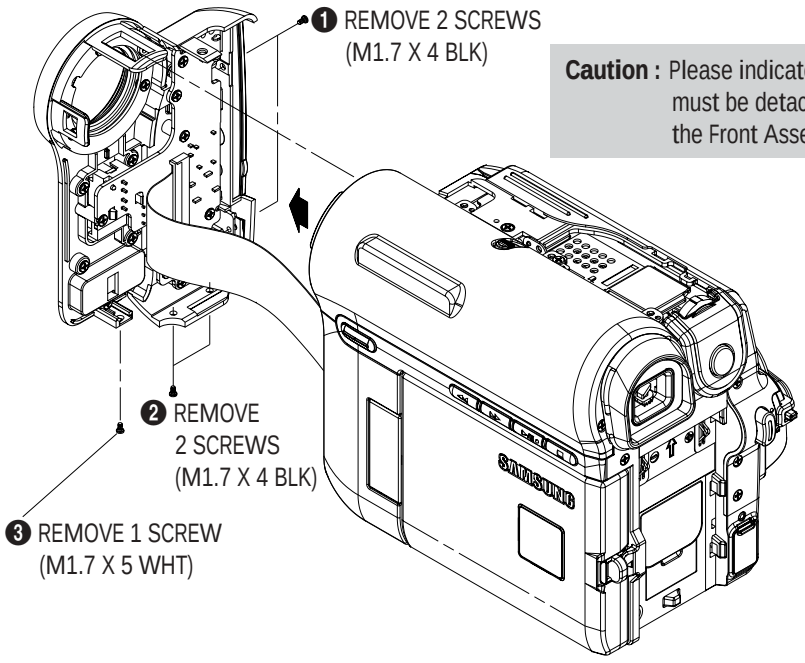

❶ REMOVE 2 SCREWS
(M1.7 X 4 BLK)
Caution : Please indicate that the connector must be detached before separating the Front Assembly
❷ REMOVE
2 SCREWS
(M1.7 X 4 BLK)
❸ REMOVE 1 SCREW
(M1.7 X 5 WHT)

Fig. 4-2 Ass'y Front Removal

4-1-3 Ass'y Top Removal

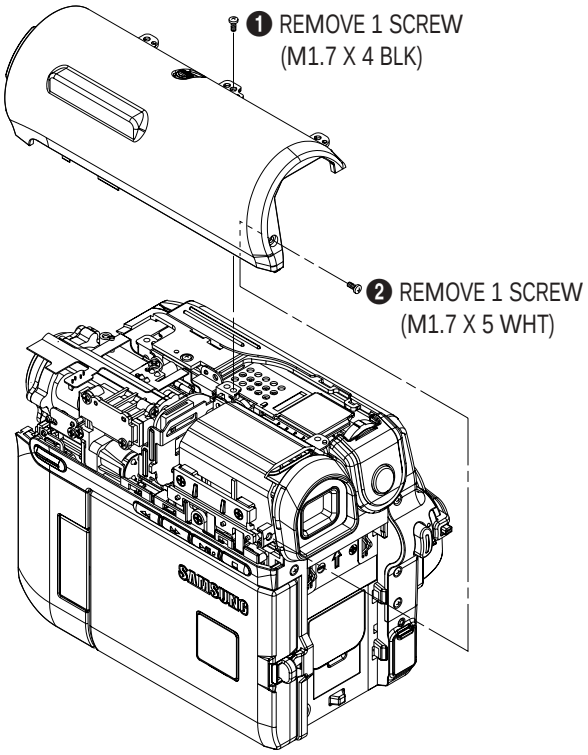


Fig. 4-3 Ass'y Top Removal

4-1-4 Ass'y Left Removal

Caution : Please indicate that the connectors must be detached before separating the Left Assembly

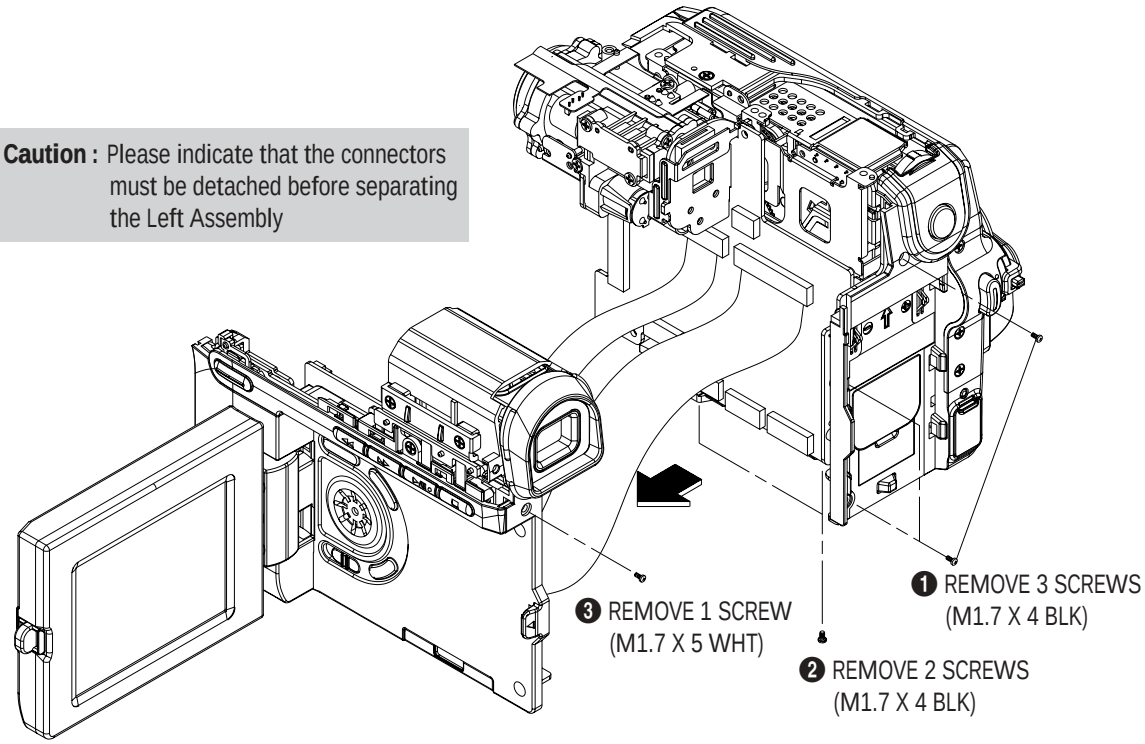


Fig. 4-4 Ass'y Left Removal

4-1-5 Ass'y LCD & EVF/CVF Removal

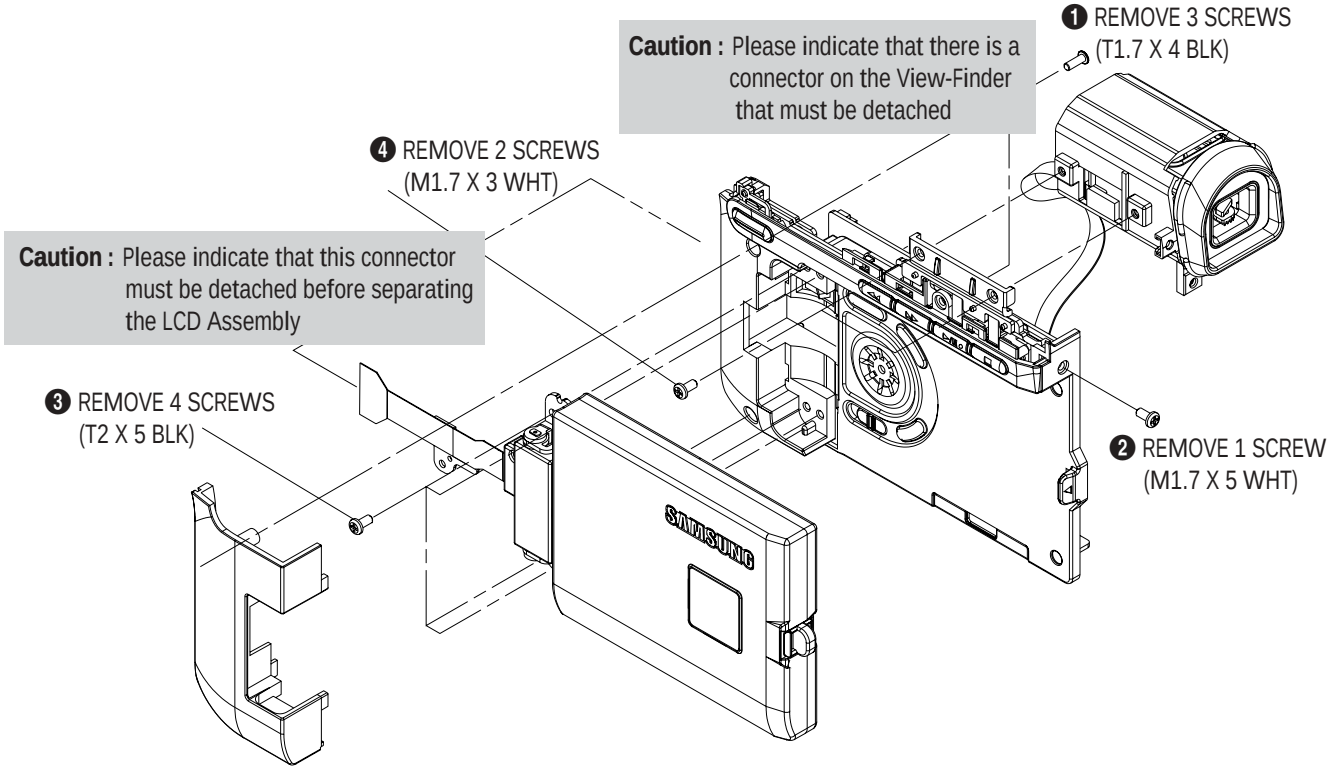

Caution : Please indicate that there is a connector on the View-Finder that must be detached
❶ REMOVE 3 SCREWS (T1.7 X 4 BLK)
❹ REMOVE 2 SCREWS (M1.7 X 3 WHT)
Caution : Please indicate that this connector must be detached before separating the LCD Assembly
❸ REMOVE 4 SCREWS (T2 X 5 BLK)
❷ REMOVE 1 SCREW (M1.7 X 5 WHT)
SAMSUNG

Fig. 4-5 Ass'y LCD & EVF/CVF Removal

4-1-6 Ass'y Rear Removal

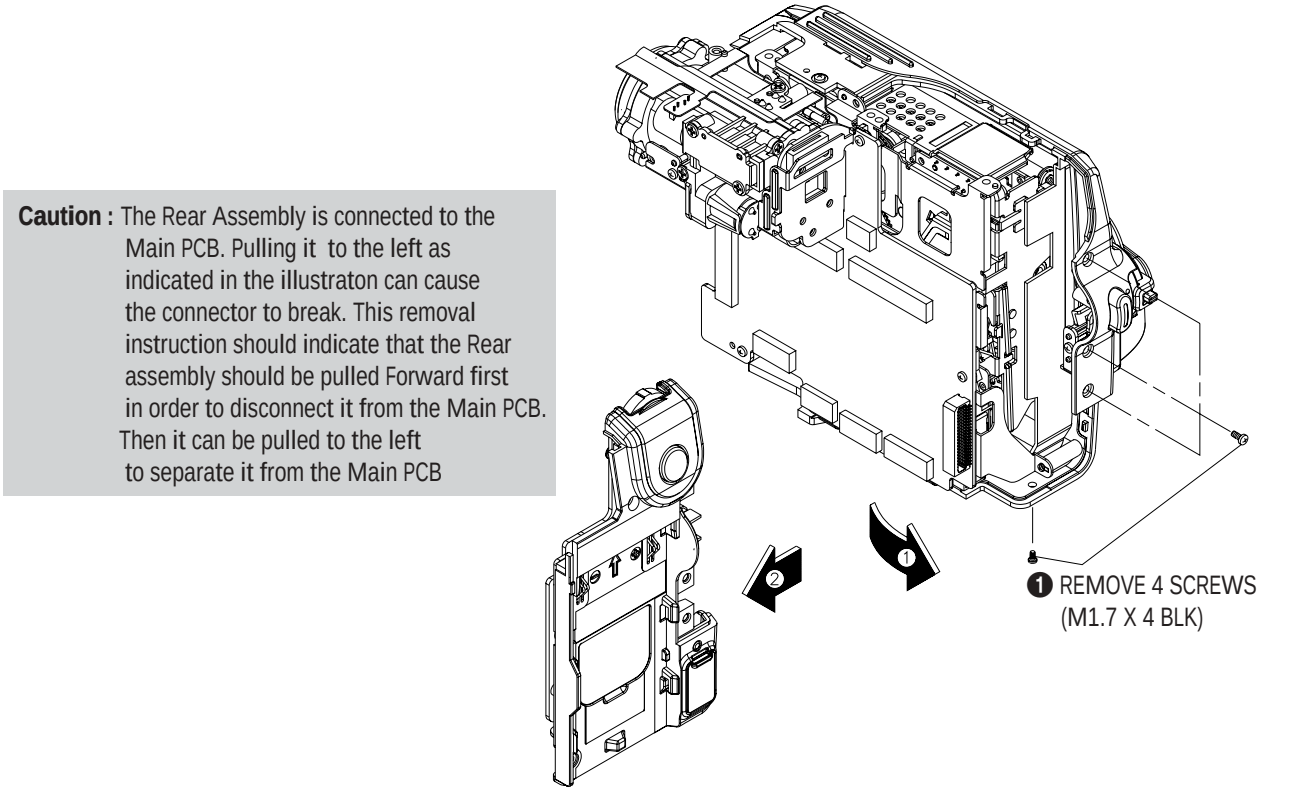

Caution : The Rear Assembly is connected to the Main PCB. Pulling it to the left as indicated in the illustraton can cause the connector to break. This removal instruction should indicate that the Rear assembly should be pulled Forward first in order to disconnect it from the Main PCB. Then it can be pulled to the left to separate it from the Main PCB
❶ REMOVE 4 SCREWS (M1.7 X 4 BLK)

Fig. 4-6 Ass'y Rear Removal

4-1-7 Ass'y Cover Housing Removal

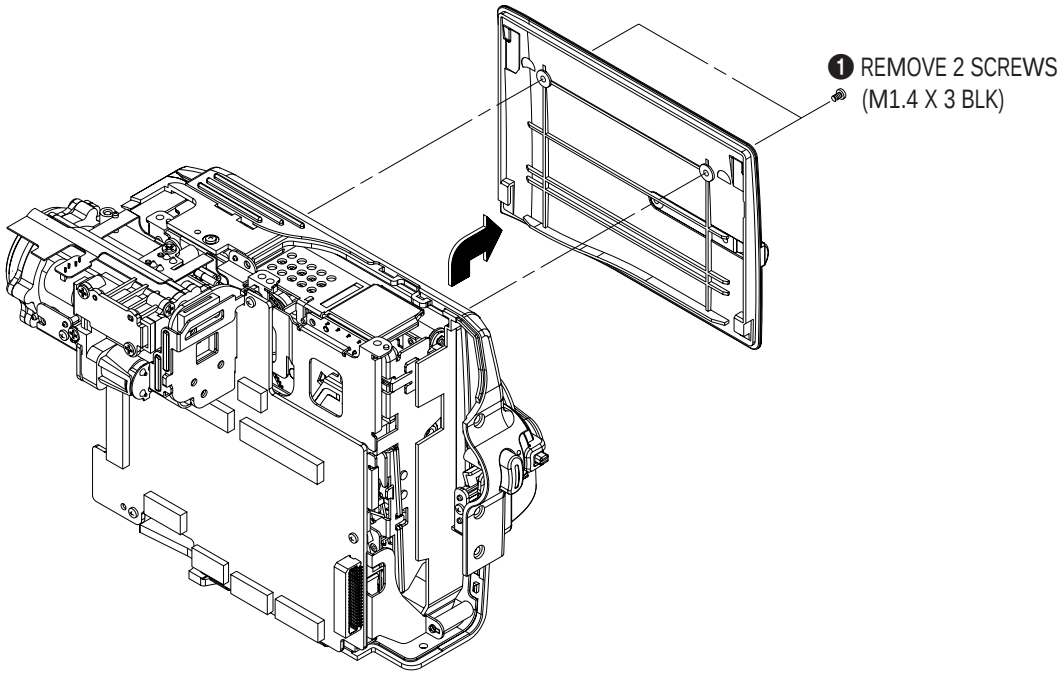


Fig. 4-7 Ass'y Cover Housing Removal

4-1-8 Ass'y Right Removal

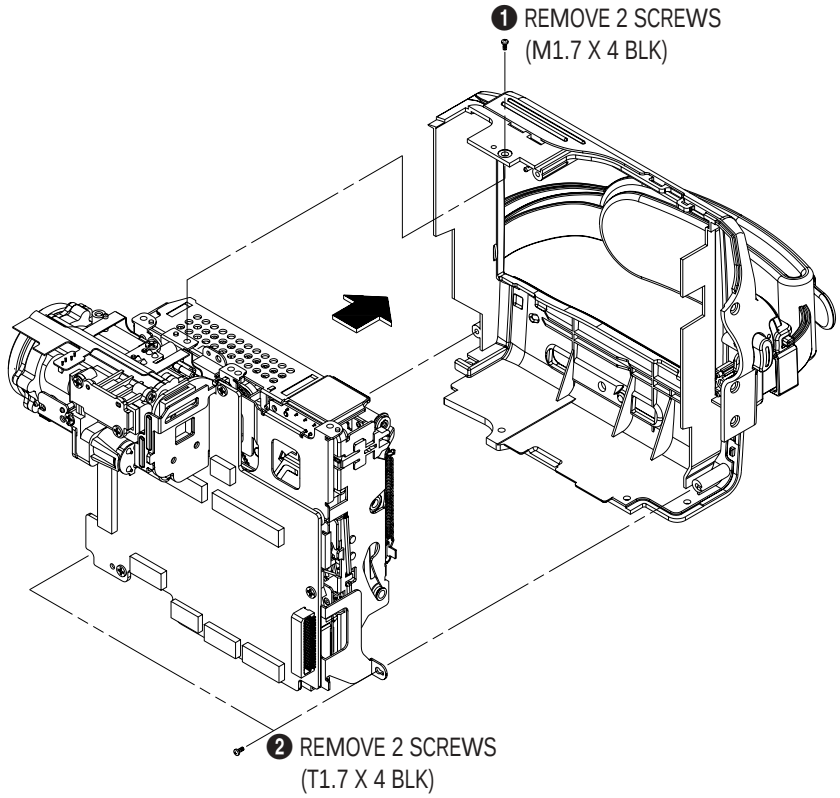
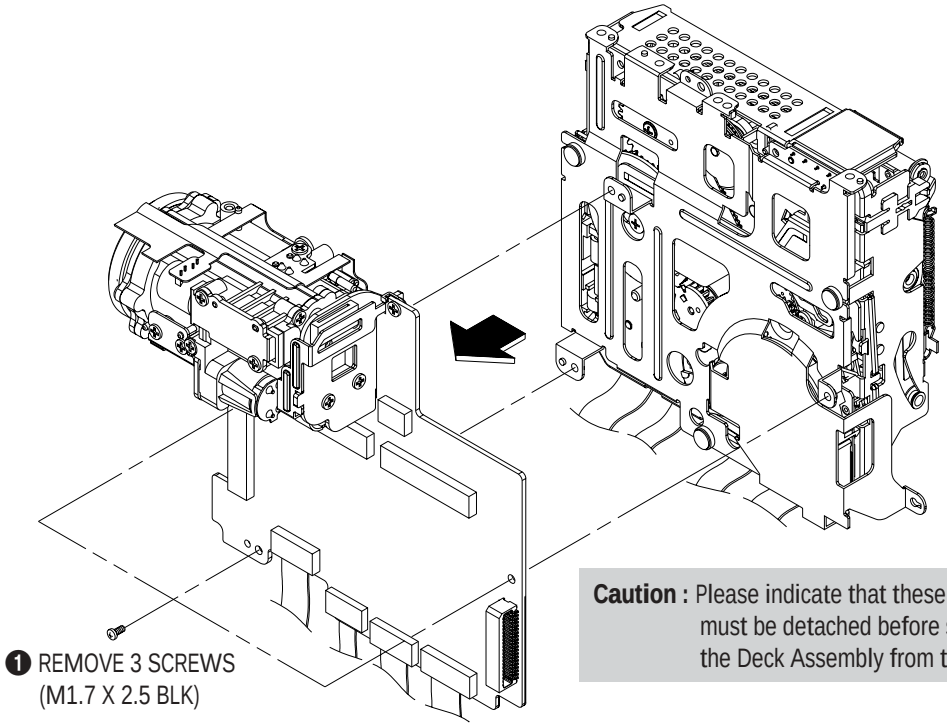


Fig. 4-8 Ass'y Right Removal

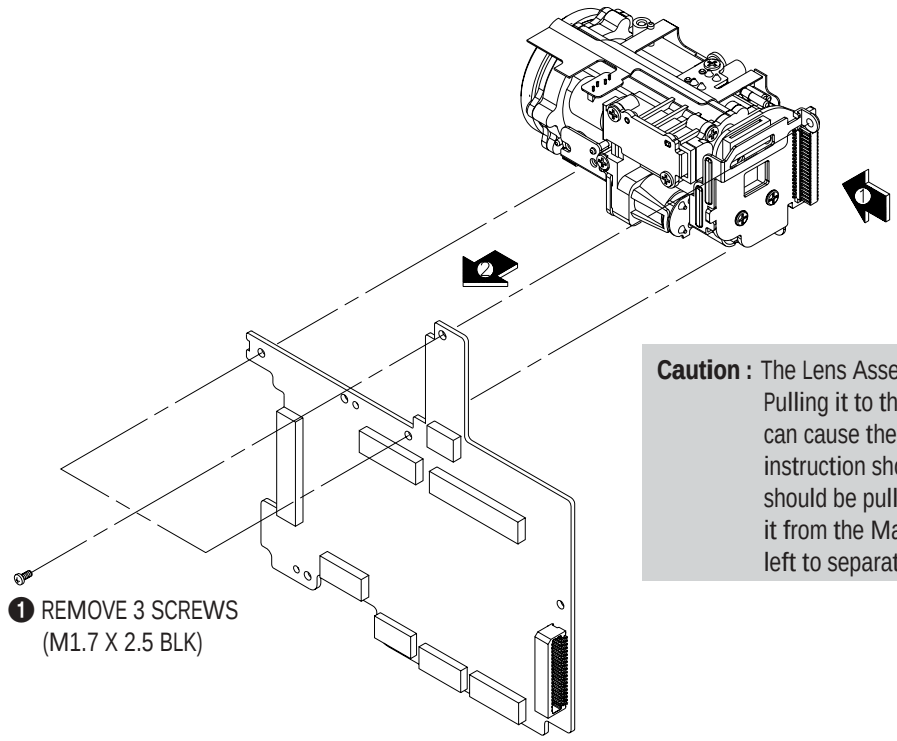
4-1-9 Ass'y Deck Removal



Caution : Please indicate that these connectors must be detached before separating the Deck Assembly from the MAIN PCB.

Fig. 4-9 Ass'y Deck Removal

4-1-10 Ass'y Main PCB Removal



Caution : The Lens Assembly is connected to the Main PCB. Pulling it to the left as indicated in the illustration can cause the connector to break. This removal instruction should indicate that the Lens assembly should be pulled Forward first in order to disconnect it from the Main PCB. Then it can be pulled to the left to separate it from the Main PCB.

Fig. 4-10 Ass'y Main PCB Removal

4-2 Deck

4-2-1 How to Load and Unload (Setting the Mechanical Modes)

1) Set the power-supply output to approximately 3V~5V, and connect it to the Motor Loading(= Loading Motor).
2) Choose the polarity depending on whether loading or unloading. (See Table 4-1)
3) Supply the voltage to the Motor Loading(= Loading Motor).

<Table 4-1>

Ⓐ	Ⓑ	Movement of Chassis
+	–	Unloading
–	+	Loading

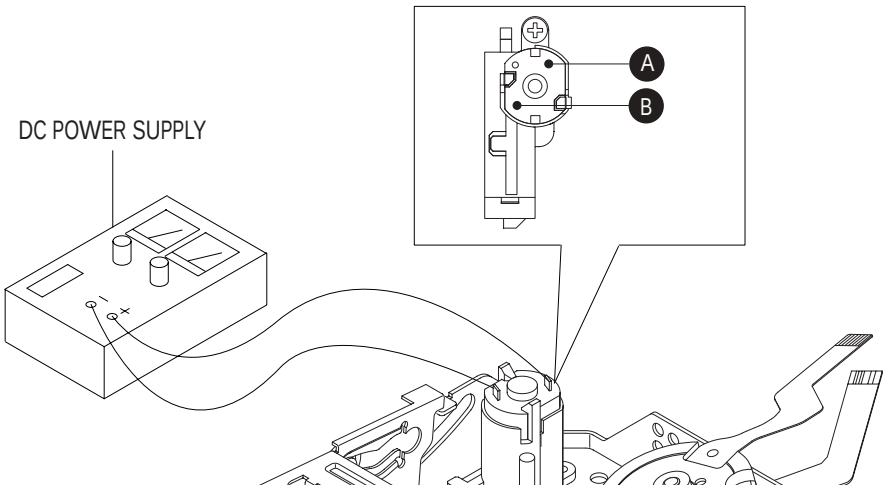


Fig. 4-11 Loading and Unloading

4-2-2 Housing Ass'y

4-2-2(a) Disassembly

Note : Do disassembly and reassembly in the unloading mode.

1) Push the Lever(see arrow "A", Detail A) turn the Lever Lock ❶ and open the Housing Ass'y ❽.
2) Separate the Hook of Housing Lock L ❷ and Housing Lock R ❸ and then lift it.
3) Separate the Shape of Pin L and R ❺ from Cam Parts ❻, ❼ of Main Chassis and then lift the Housing Ass'y ❽.

4-2-2(b) Reassembly

1) Mount the Shape of Pin L and R ❺ to Cam Parts ❻, ❼ of Main Chassis.
2) Mount Housing Lock L ❷, R ❸ to right and left , and then locked.

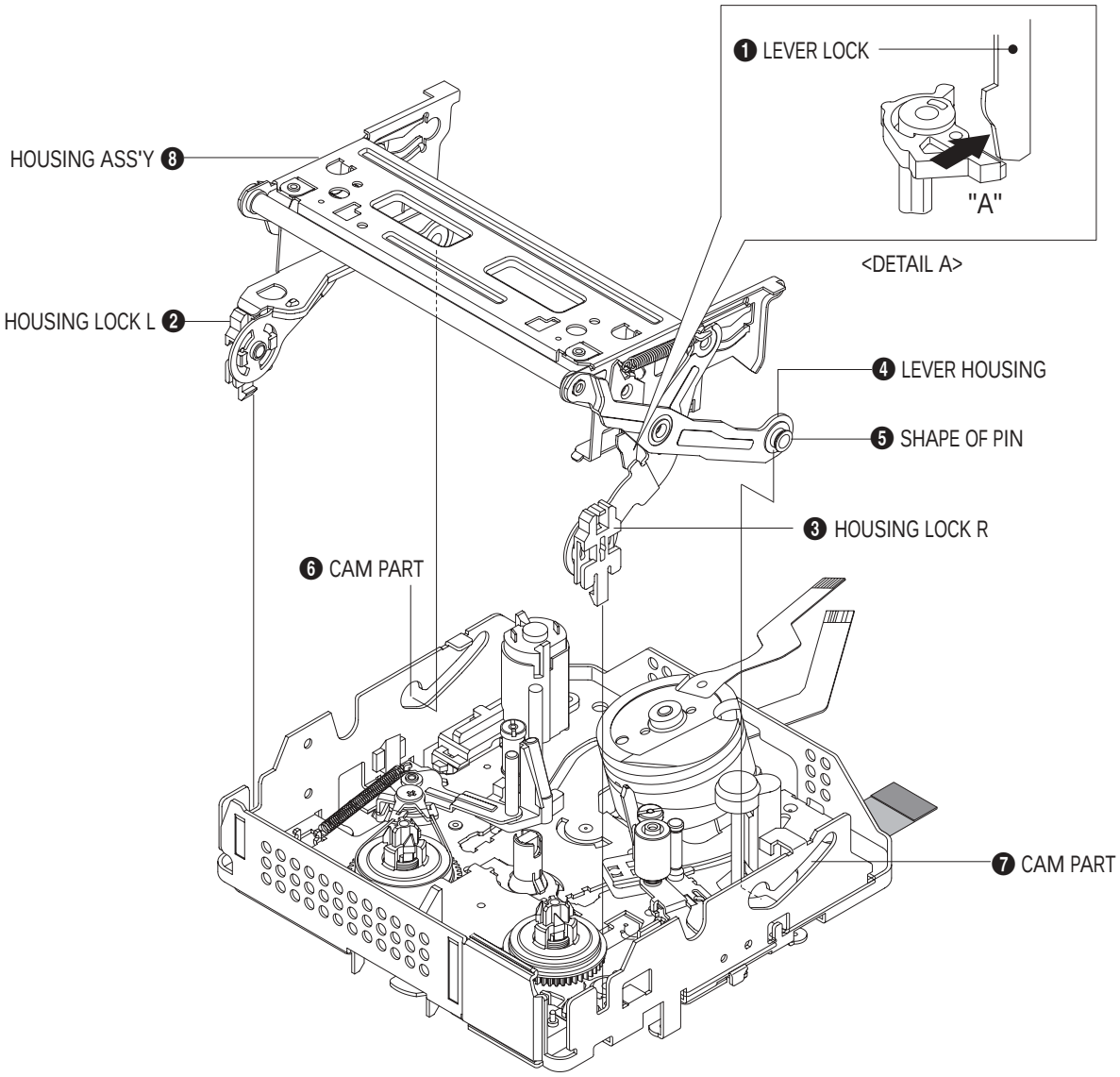


Fig. 4-12 Housing Ass'y

4-2-3 Cover Reel Ass'y, Idler Ass'y

4-2-3(a) Disassembly

1) Lift the Cover Reel Ass'y ❶ (See arrow "A").
2) Then lift the Idler Ass'y ❷.

4-2-3(b) Reassembly

1) Fit the Idler Ass'y ❷ into the Pin.
2) Mount the Cover Reel Ass'y ❶ to the Main Chassis is groove in the oposite direction of arrow "A".

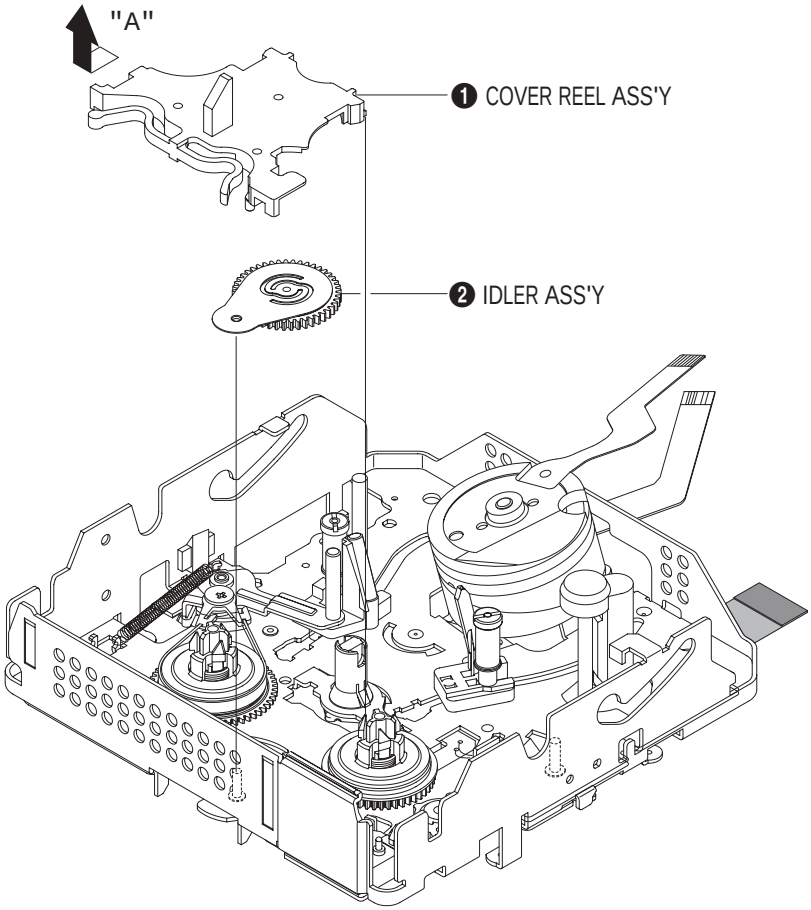


Fig. 4-13 Cover Reel Ass'y, Idler Ass'y

4-2-4 Reel Disk T, Brake T, Lever Eject

4-2-4(a) Disassembly

Note 1 : When disassembling, take care not to deform the part. Do not stain the post.

1) Lift up the Brake T ❷.
2) Lift up the Reel Disk T ❶.
3) Separate the Lever Eject's hook from the Main Chassis, and then Lift up the Lever Eject ❸.

4-2-4(b) Reassembly

1) Insert the Lever Eject ❸ into the shape of pin ❹, and then lock the Lever Eject's hook Eliminate this step.
2) Mount the Reel Disk T ❶ to the pin ❻.
3) Insert the Brake T ❷ into the shape of pin ❺.

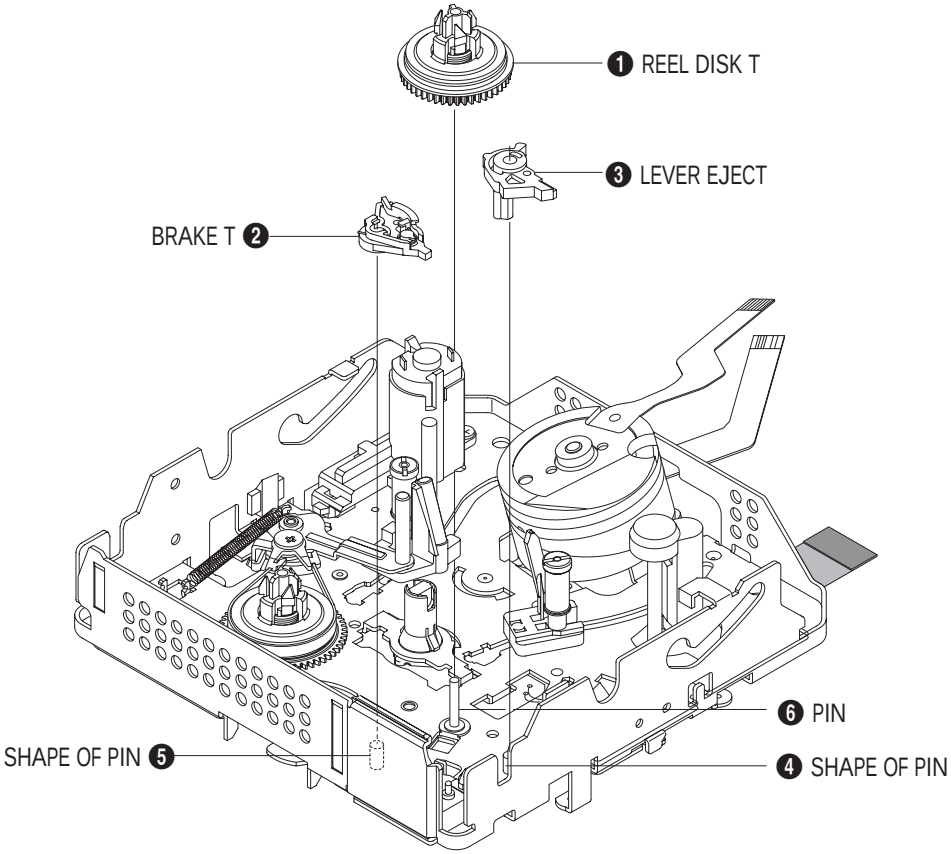


Fig. 4-14 Reel Disk T, Brake T, Lever Eject

4-2-5 Arm Tension (=Tension Arm) Ass'y, Reel Disk S

4-2-5(a) Disassembly

Note 1 : When disassembling, take care not to deform any part. Do not stain the post.

1) Separate the Spring Tension (=Tension Spring)❶ form Hook of Main Chassis.
2) Remove the Washer Slit ❸, and then lift up the Arm Tension (=Tension Arm) ❹.
3) Lift up the Reel Disk S ❺.

4-2-5(b) Reassembly

1) Mount the Reel Disk S ❺.
2) Push the Arm Tension (=Tension Arm) Ass'y ❹ in the direction "A", and then insert into the Pin ❻.
3) Insert the Washer Slit ❸, and then attach the Spring Tension (=Tension Spring) ❶ to Main Chassis Hook ❷ and Arm Tension Hook ❼.

Note 1 : When reassembling or disassembling, position of Spring Tension (=Tension Spring) ❶ is same.
Note 2 : When inspecting the motion, Forward and Reverse Tensions must be inspected.
Note 3 : When reassembling, confirm that the bending of the Arm Tension (=Tension Arm) is inserted into the Guide Cam.

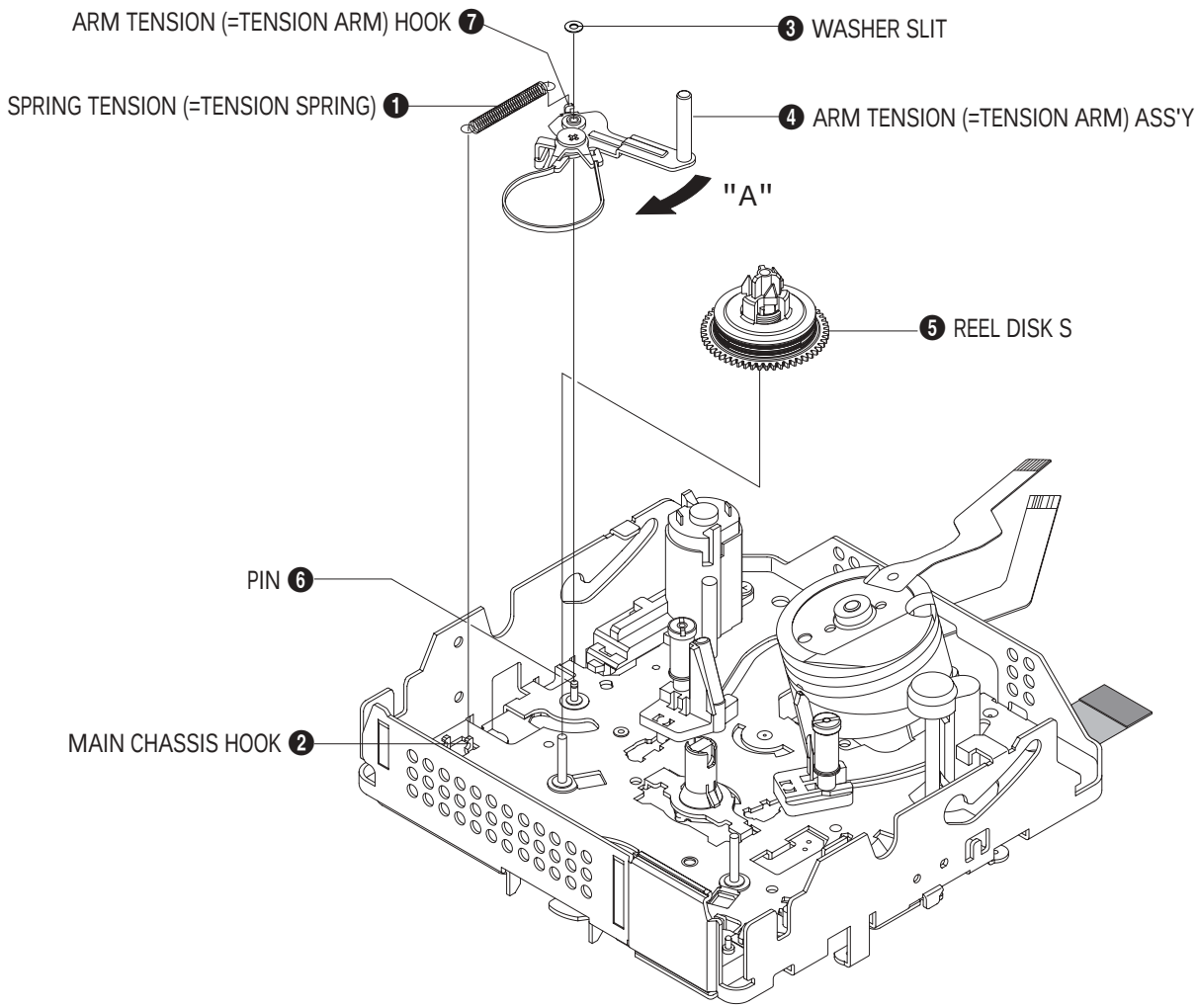


Fig. 4-15 Arm Tension (=Tension Arm) Ass'y, Reel Disk S

4-2-6 Drum

4-2-6(a) Disassembly

Note 1 : Do not touch the Head tip ❻ when removing or reassembling the Drum ❸.
Note 2 : Do not touch the path post when removing or reassembling

1) Remove 3 Screws ❶, and then remove the Spring Plate ❷.
2) Lift up the Drum ❸.

4-2-6(b) Reassembly

1) Mount and insert the Drum ❸ to the 1 Bending ❹ and 1 Hole ❺.
2) Insert the Spring Plate ❷, and then secure 3 Screws ❶.

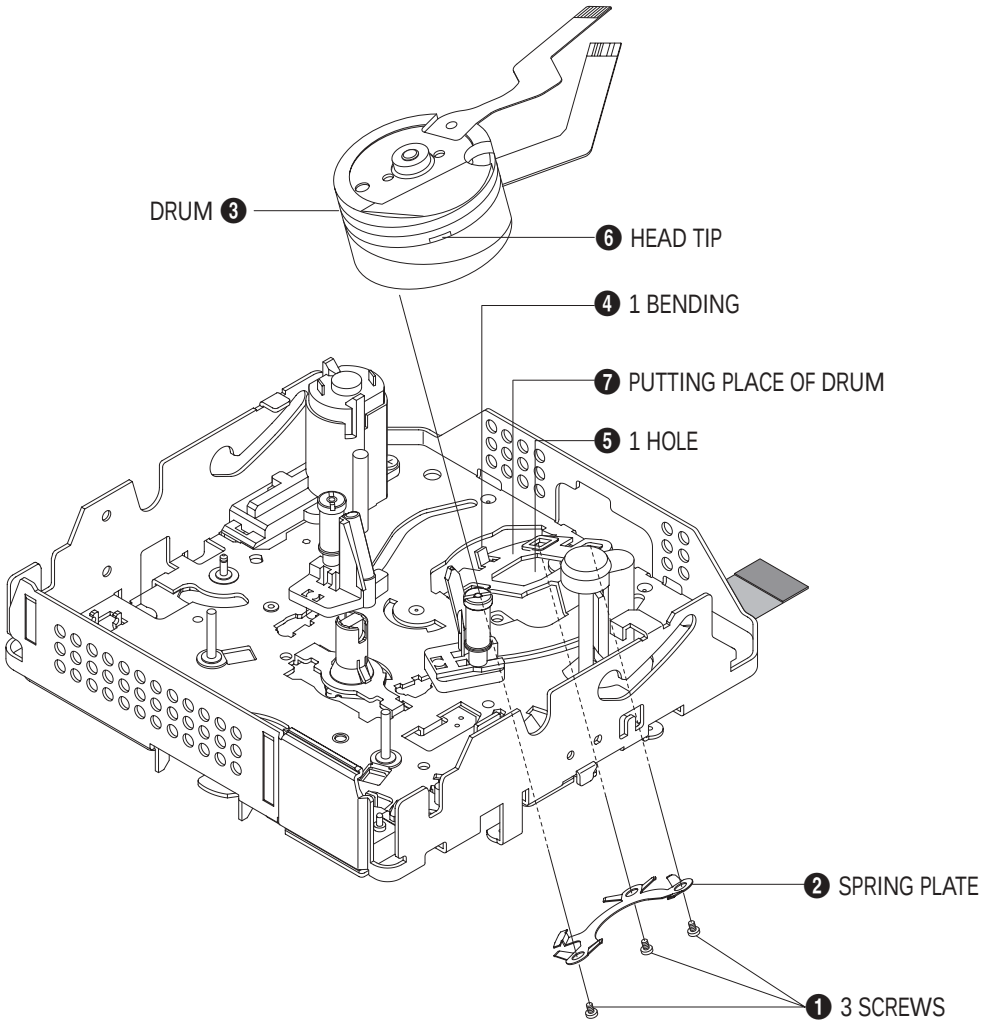


Fig. 4-16 Drum

4-2-7 Loading Motor Ass'y, Pinch Review Ass'y

4-2-7(a) Disassembly

Note : When disassembling and reassembling, be careful not to touch the Pinch Roller and the review post.

1) In unload mode, rotate the Pinch Review Ass'y ❶ in a clockwise direction and left up the Pinch Review Ass'y ❶.
2) De-solder the 2 points.
3) Remove the 1 screw ❸ and separate the 1 hook of Loading Motor Ass'y ❹.
4) Lift up the Loading Motor Ass'y ❹.

4-2-7(b) Reassembly

1) Lock the one hook of Loading Motor Ass'y ❹ and secure one screw ❸.
2) Re-solder the 2 wires. (+ into red wire , - into blue wire)
3) In disassembling position, insert the Pinch Review Ass'y ❶ and rotate the Pinch Review Ass'y ❶ in unload position.

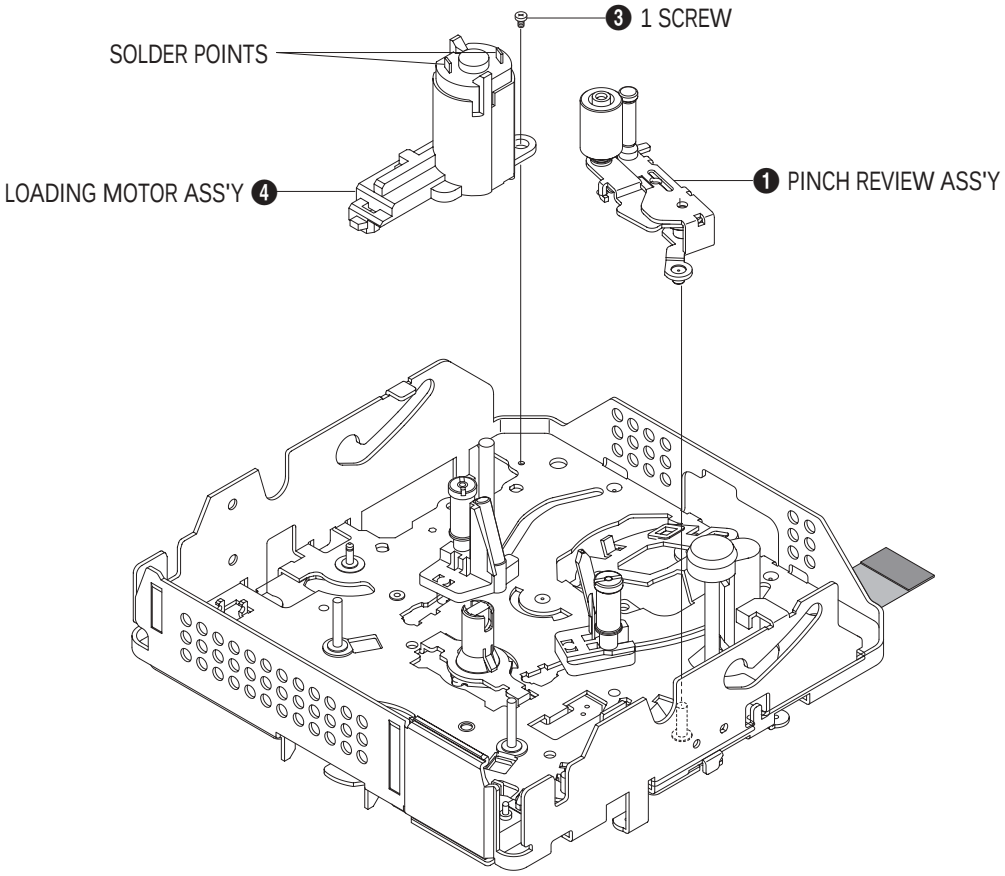


Fig. 4-17 Loading Motor Ass'y, Pinch Review Ass'y

4-2-8 Guide Roller S,T , Pole Base S,T , Gear Loading S,T Ass'y

Note1 : When disassembling and reassembling, be careful not to touch the Guide Roller S ❺ and T ❻.
Note2 : When disassemblig and reassembling the Guide Roller S ❺ and T ❻, be careful not to deform the Gear Loading S ❷ and T ❹ Ass'y.

4-2-8(a) Disassembly

1) Lift up the Pole Base S ❶(T ❸) Ass'y form the link of the Gear Loading S ❷(T ❹) Ass'y.
2) Turn the S ❺ and T ❻ Guide Rollers counter clockwise to remove them.
3) Separate the hook of the Gear Loading S ❷ and lift down the Gear Loading S ❷(T ❹) Ass'y.

4-2-8(b) Reassembly

1) Turn the S ❺ and T ❻ Guide Rollers clockwise and reassemble.
2) Replace the S ❷ and T ❹ Gear Loading assemblies.
3) Fit the Pole Base S ❶(T ❸) Ass'y in the link of the Gear Loading S ❷(T ❹) Ass'y.

Note 1 : When reassembling, confirm the assemble point.
Note 2 : Disassembly and reassembly is done in the Unload mode.
Note 3 : After assembling, make sure that loading and unloading work correctly by applying 3V~5V to the Loading Motor.

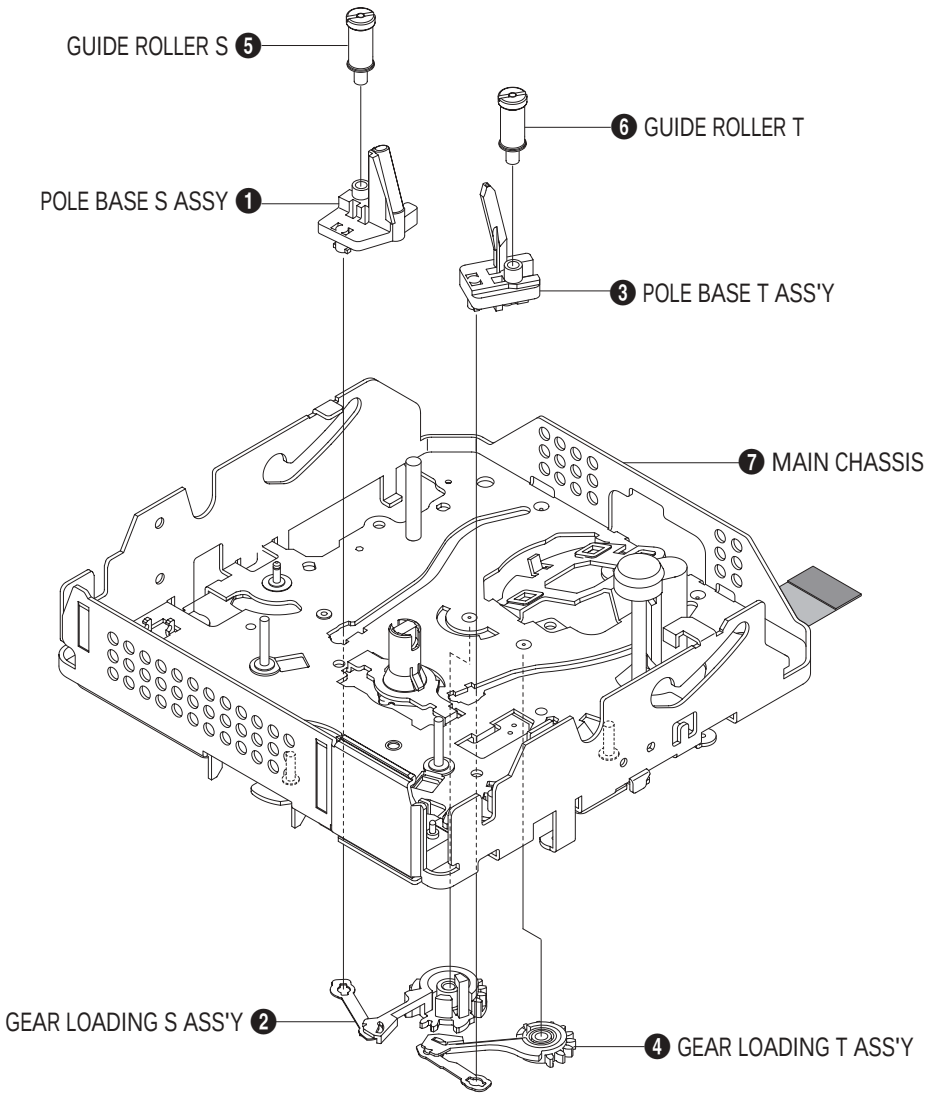

GUIDE ROLLER S ❺
❻ GUIDE ROLLER T
POLE BASE S ASSY ❶
❸ POLE BASE T ASS'Y
❼ MAIN CHASSIS
GEAR LOADING S ASS'Y ❷
❹ GEAR LOADING T ASS'Y

Fig. 4-18 Guide Roller S,T , Pole Base S,T , Gear Loading S,T Ass'y

4-2-9 Slide Main, Gear Cam Main, Gear Mode Switch

Note : Disassembly and reassembly must be done with the Deck Assembly in the Unload mode.

4-2-9(a) Disassembly

1) Remove the 1 screw ❶ and lift up the Slide Main ❷.
2) Lift up the Gear Cam Main ❸.
3) Remove the 1 screw ❹ and lift up the Gear Mode Switch ❺.

4-2-9(b) Reassembly

1) Mount the Gear Mode Switch ❺ and secure the 1 screw ❹.
2) After assemble and fit the Gear Cam Main ❸, Gear Mode Switch ❺ to assemble point.
3) Mount the Slide Main ❷ and secure 1 screw ❶.

Note : When reassembling, confirm that pin of Slide Main ❷ is inserted into the cam of Gear Cam Main ❸.

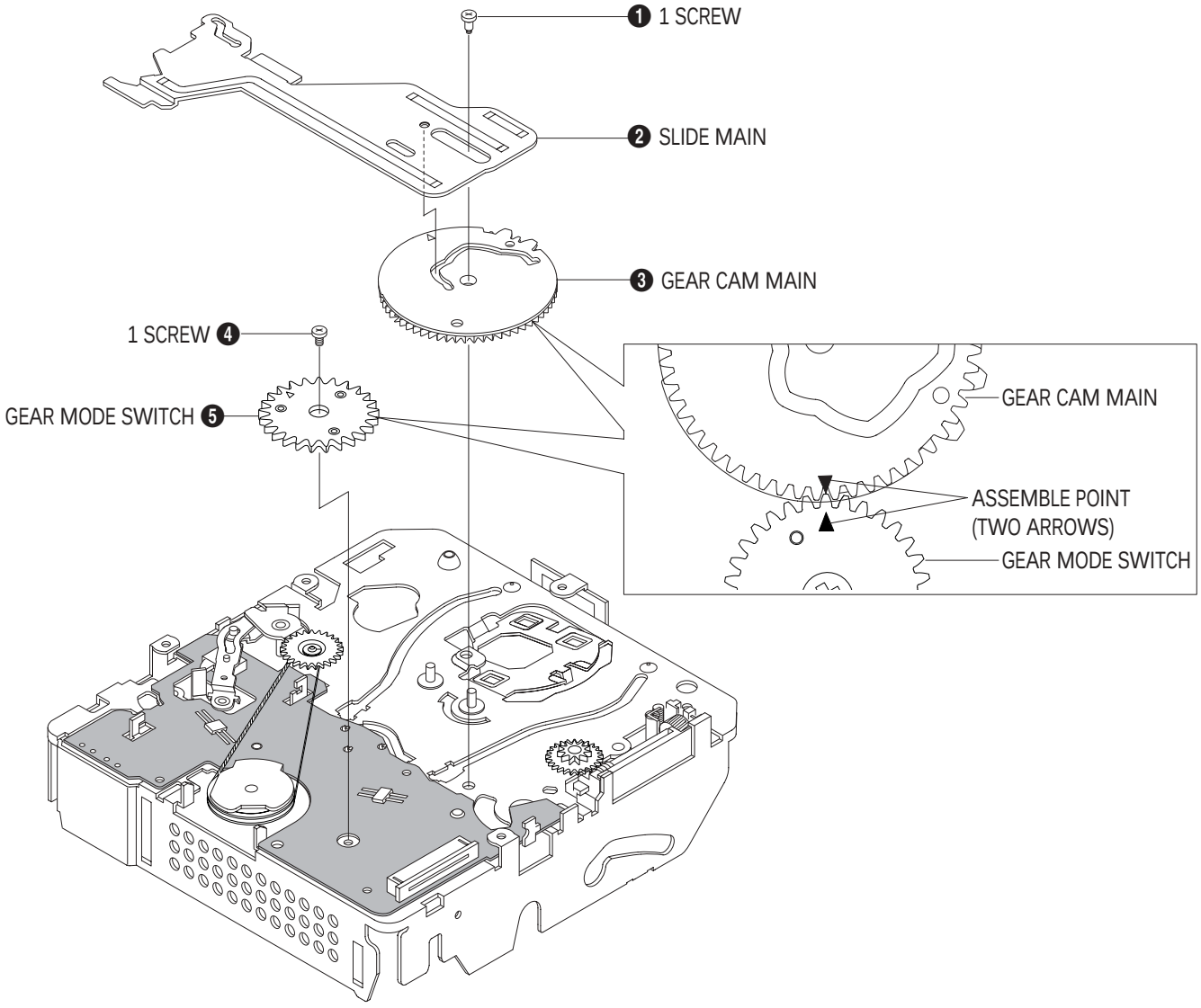


Fig. 4-19 Slide Main, Gear Cam Main, Gear Mode Switch

4-2-10 Cover Capstan, Capstan Motor Ass'y

Note : Be careful not to damage the gears during the disassembly and reassembly process.

4-2-10(a) Disassembly

1) Remove the 1 Screw ❶.
2) Separe 2 hooks of Cover Capstan ❷ and then lift up the Cover Capstan ❷.
3) Remove the 2 Screws ❸, and then lift up the Capstan Motor Ass'y ❹.

4-2-10(b) Reassembly

1) Mount the Capstan Motor Ass'y ❹ and secure the 2 Screws ❸.
2) Lock the 2 hooks of Cover Capstan ❷ and 1 Screw ❶.

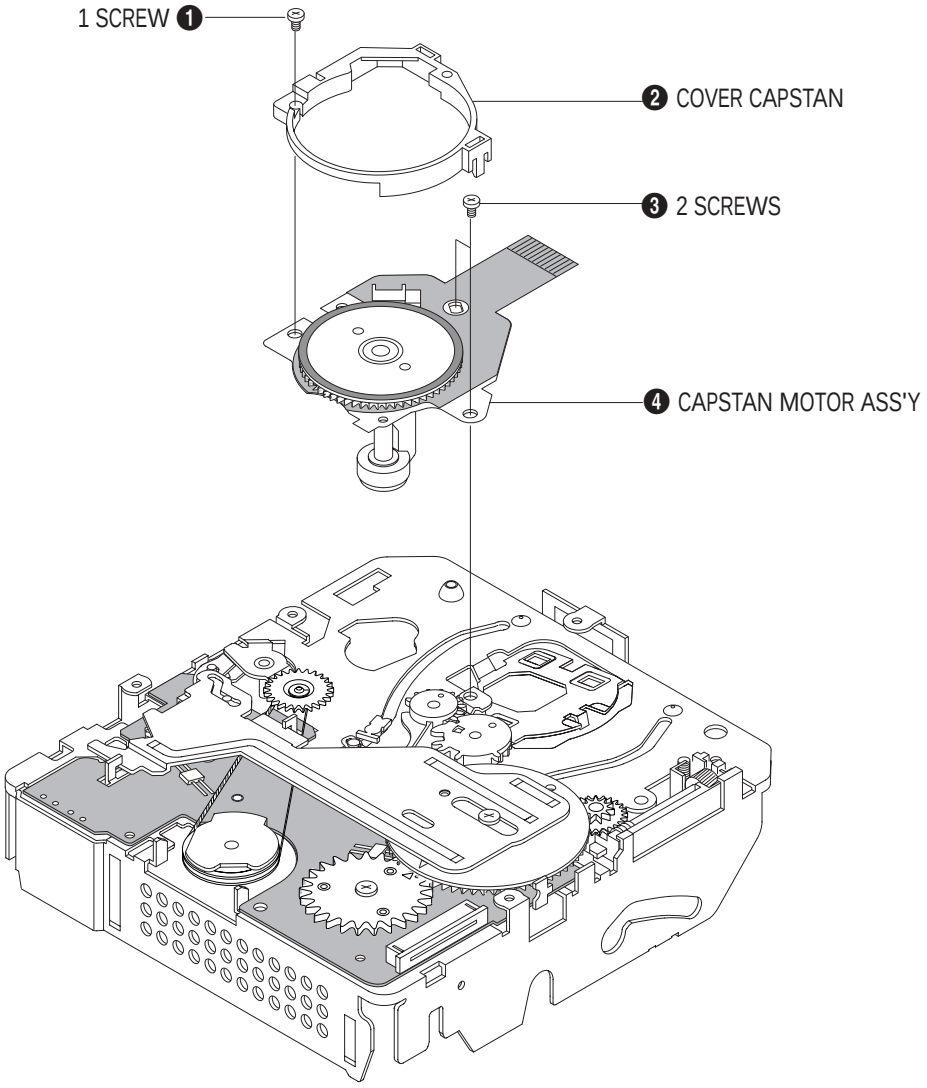


Fig. 4-20 Cover Capstan, Capstan Motor Ass'y

4-2-11 Belt Timing (Timing Belt), Gear Capstan, Gear Pulley, Lever Review

4-2-11(a) Disassembly

1) Lift up the Lever Review ❶.
2) Remove the Washer Slit ❷ and lift up the Gear Capstan ❸.
3) Separate the Pulley Belt Timing (=Timing Belt) ❹ and lift down the Gear Pulley ❺.

4-2-11(b) Reassembly

1) Mount the Gear Pulley ❺ and hang the Belt Timing (=Timing Belt) ❹ on the Gear Pulley ❺.
2) Hang the Pulley Belt Timing ❹ on the lower gear of the Gear Capstan ❸, and then mount the Gear Capstan ❸.
3) Insert the Washer Slit ❷.
4) Mount the Lever Review ❶.

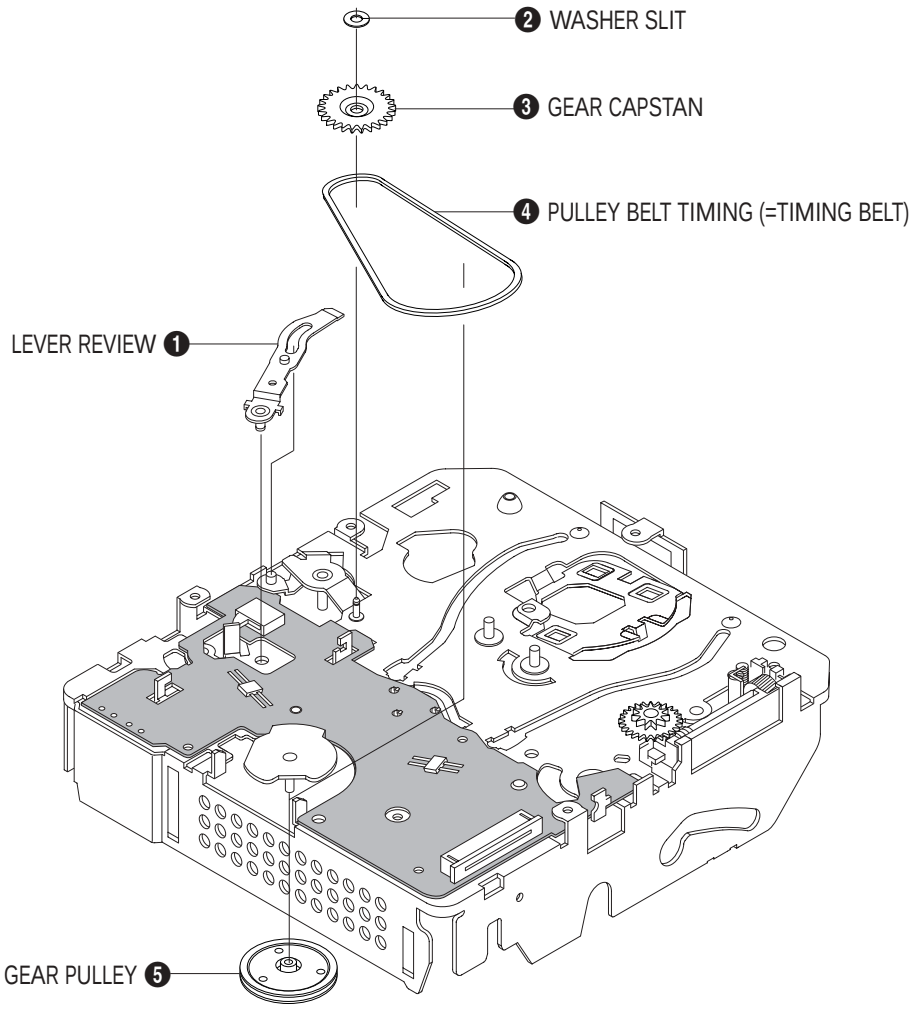


Fig. 4-21 Belt Timing (=Timing Belt), Gear Capstan, Gear Pulley, Lever Review

5. Exploded View and Parts List

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5-7 Ass'y Rear ---------- 5-14

5-8 Ass'y EVF ---------- 5-15

5-9 Ass'y Zoom ---------- 5-16

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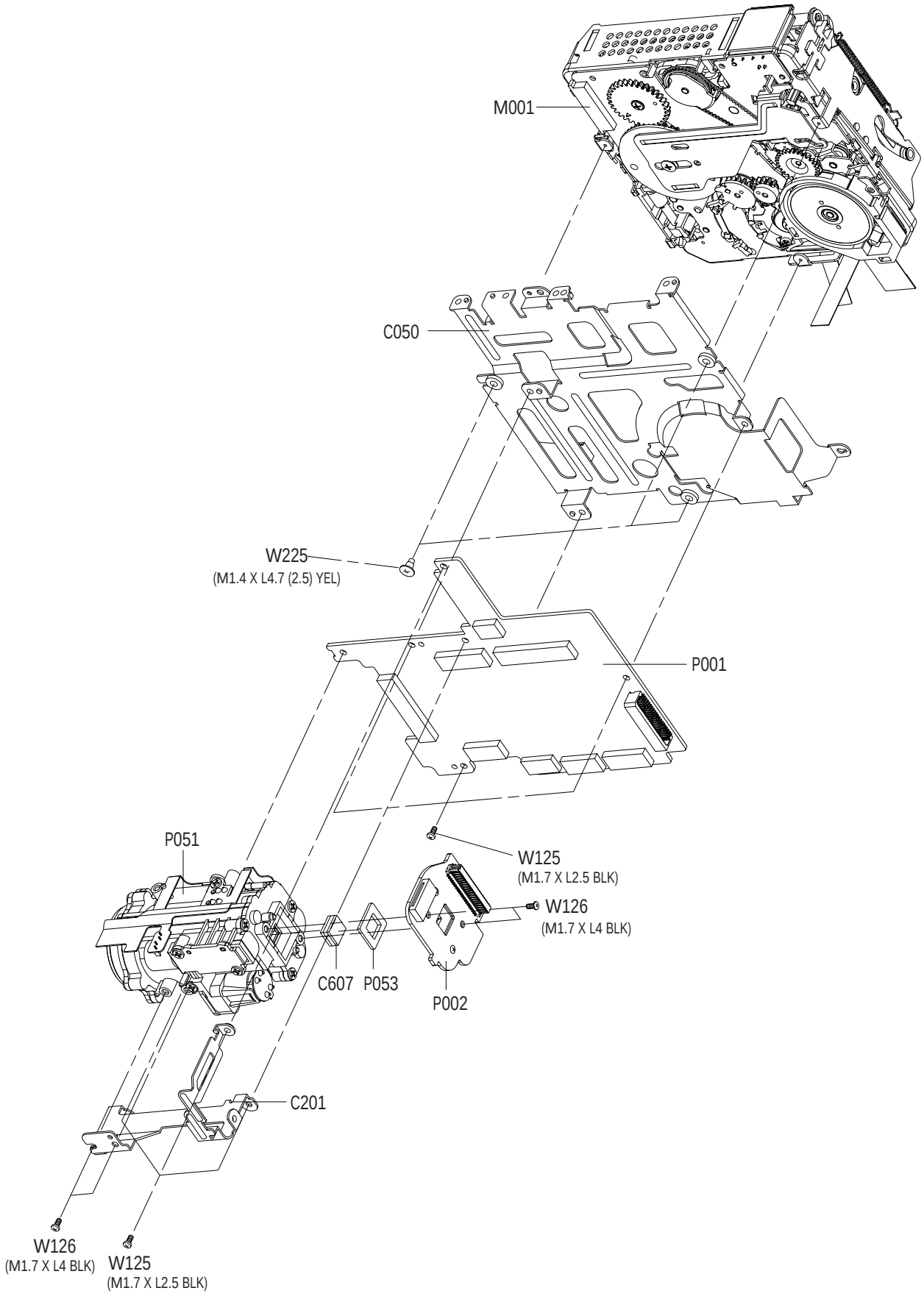
5-12 Mechanical Parts (Sub Chassis) ---------- 5-20

Notice

You can search for the updated part code through ITSELF web site.

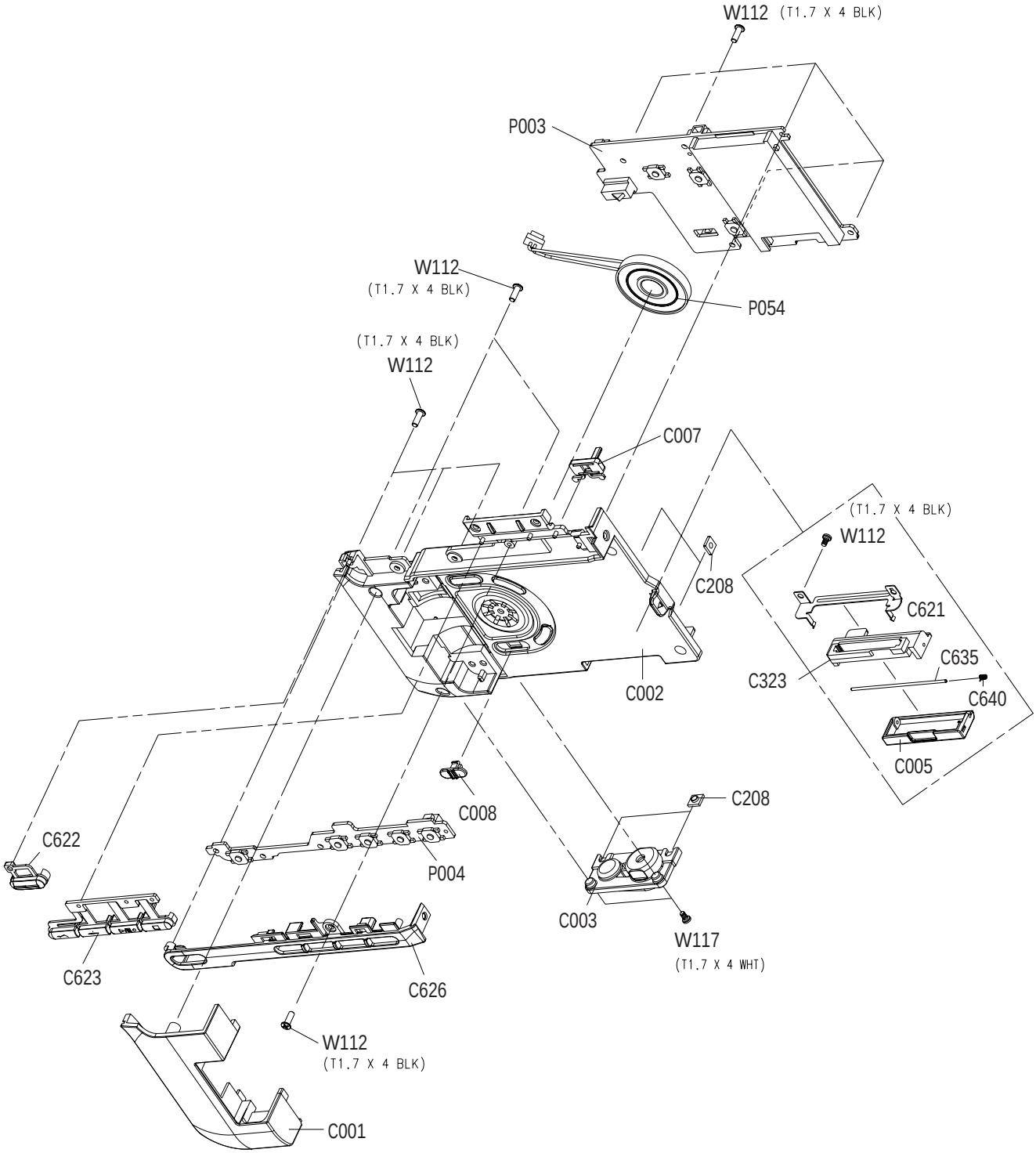
URL; http://itself.sec.samsung.co.kr

5-1 Ass'y Chassis



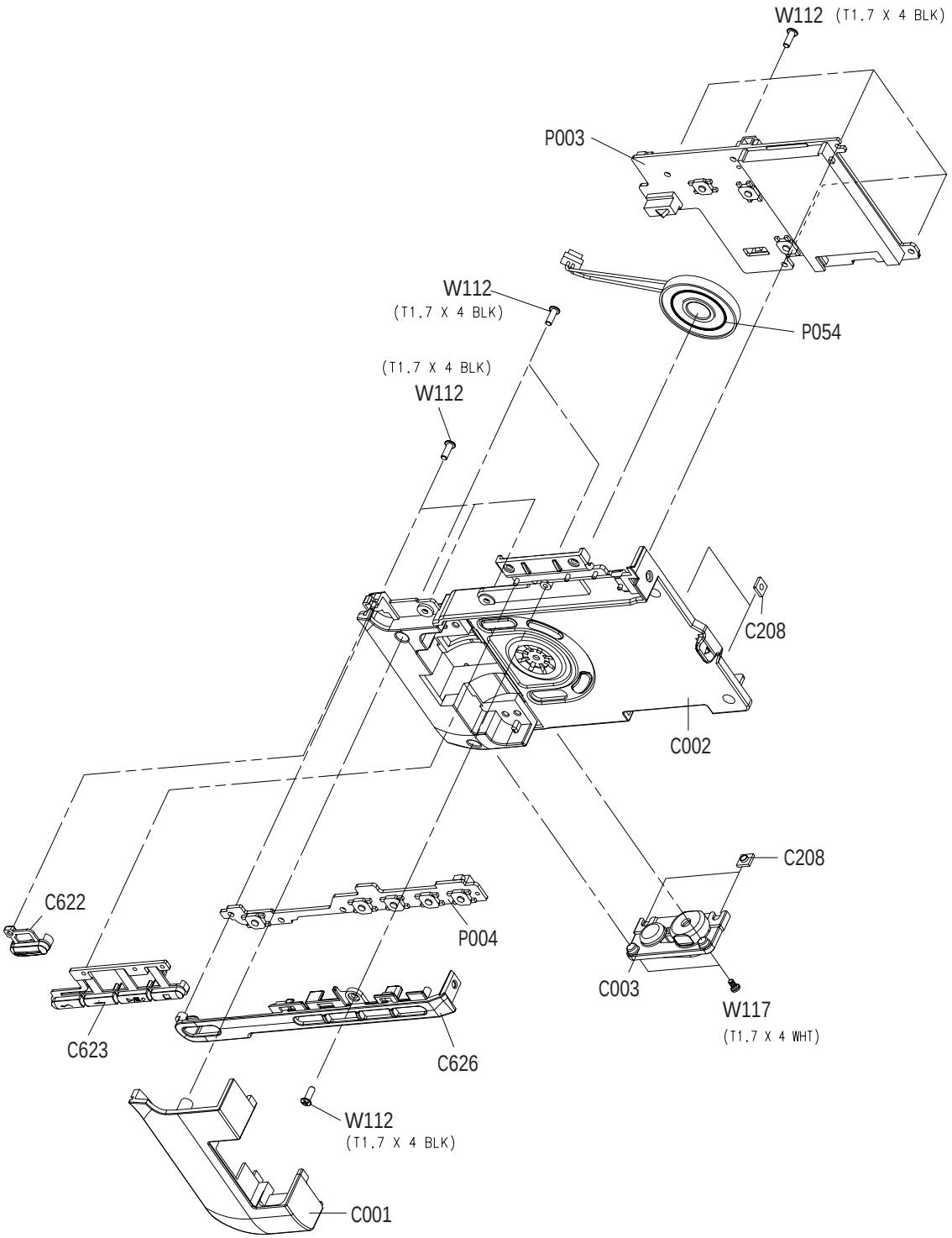
Loc. No	Parts No.	Description ; Specification	Remark
C050	AD97-09608A	ASSY-CHASSIS DECK;ASSY,DRAGON-PJ,-	
C201	AD61-01994A	BRACKET-LENS;DRAGON-PJ,SUS304 1/2H,T0.5,	
C607	0605-001099	CCD;COLOR,DIP,14P,8.2x8.36x3.5mm,6	
M001	AD97-09507A	ASSY-DECK;ASSY,DD-10,-	
P001	AD97-09528A	ASSY-MAIN BOARD;DRAGON-PJ,SC-D353,MAIN B	SCD353 Only
	AD97-09528C	ASSY-MAIN BOARD;DRAGON-PJ,SC-D352,MAIN B	SCD352 Only
	AD97-09528E	ASSY-MAIN;DRAGON-PJ,SC-D351,MAIN BOARD(N	SCD351 Only
P002	AD97-09533A	ASSY-CCD BOARD;-,DELTA3,CCD BOARD,C	
P051	AD97-08324A	ASSY-LENS-ZOOM;PC,SHML,20X	
P053	AD60-00053A	SPACER-CCD;ALPHA_PJ,SILICON,-,-,-,BLK,0.	
W125	6001-001385	SCREW-MACHINE;CH,+,M1.7,L2.5,ZPC(BLK),SW	
W126	6003-001300	SCREW-TAPTITE;CH,+,B,M1.7,L4,ZPC(BLK),SW	
W225	6009-001410	SCREW-SPECIAL;CH,+,-,M1.4,L4.7(2.5),ZPC(	

5-2 Ass'y Left (SCD353)



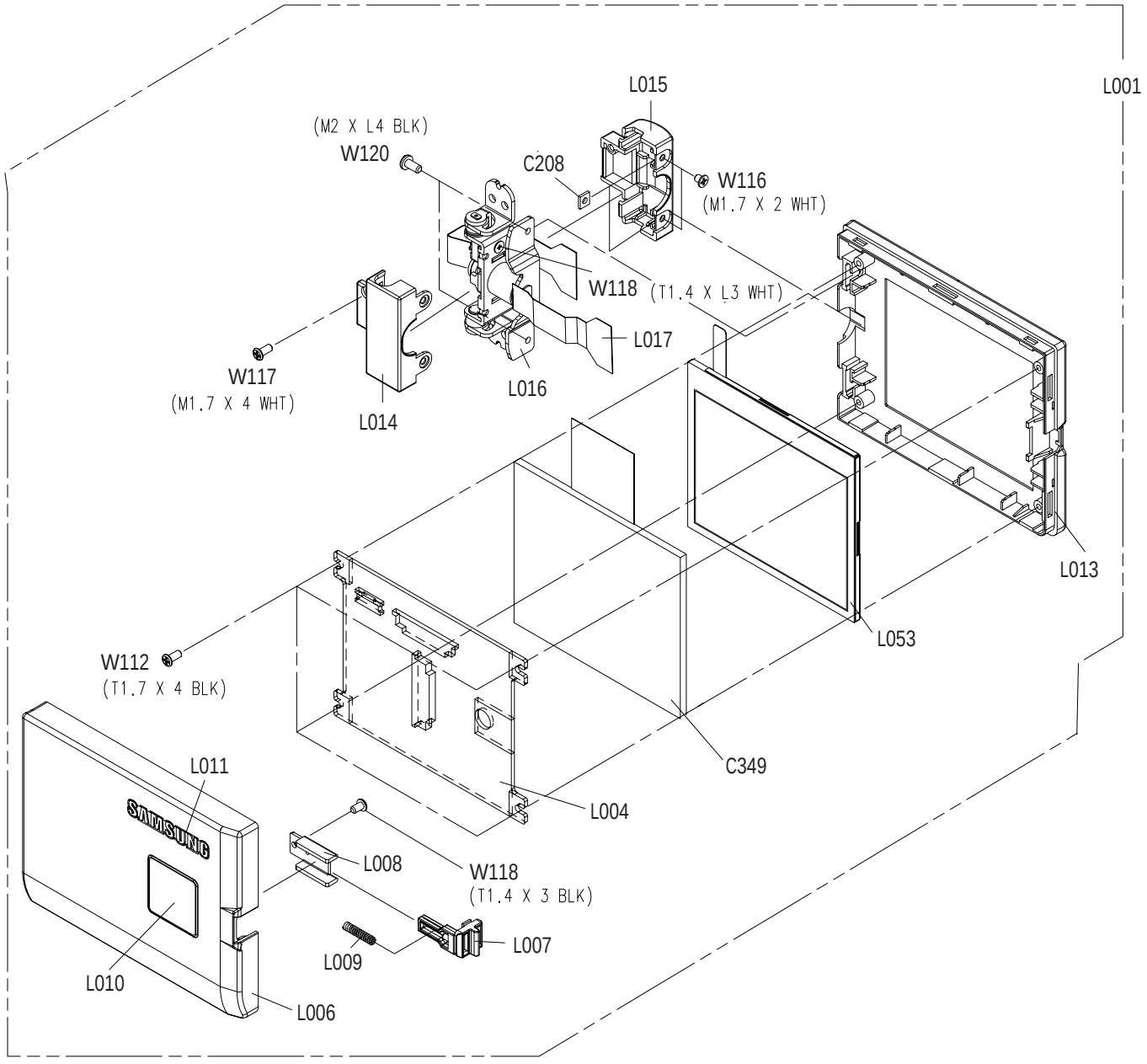
Loc. No	Parts No.	Description ; Specification	Remark
C001	AD63-00709A	COVER-LEFT;DRAGON-PJ,ABS,T14,W30,L58,-,-	
C002	AD61-01977B	CASE-LEFT;SC-D353,ABS 94HB,T25,W79,L99,S	
C003	AD61-01694A	HOLDER-TRIPOD;THETA3-PJ,PC,T1.0,W30,L14,	
C005	AD63-00706B	COVER-DOOR;DRAGON-PJ,PC,T1,W10,L29,-,-,?	
C007	AD61-01988A	HOLDER-SELECT;DRAGON-PJ,POM,T7,W8,L11,NA	
C008	AD64-01322A	KNOB-SELECT;DRAGON-PJ,ABS,T4,W5,L8,-,SIL	
C208	AD61-12033A	BRACKET-NUT;SV-D10,SECC,-,-,-,-,T0.8	
C323	AD61-02069A	HOLDER-DOOR MS;DRAGON-PJ,ABS,T7,W12,L32,	
C621	AD61-01990A	BRACKET-DOOR;DRAGON-PJ,SUS304 1/2H,T0.8,	
C622	AD64-01314A	BUTTON-FUNCTION A;DRAGON-PJ,ABS,W11xH10x	
C623	AD64-01315A	BUTTON-FUNCTION B;DRAGON-PJ,ABS,W45xH14x	
C626	AD63-00716A	COVER-DUMMY FUNCTION;DRAGON-PJ,ABS,T9,W1	
C635	AD66-00350A	SHAFT-DOOR;DRAGON-PJ,SUS,L35,0.8,-,-,-	
C640	AD61-02005A	SPRING ETC-DOOR;DRAGON-PJ,SUS,0.2,1,1.4,	
P003	AD97-09524C	ASSY-LEFT BOARD;DRAGON-PJ,M/S, EVF,LEFT	
P004	AD97-09526A	ASSY-FUNCTION BOARD;DRAGON-PJ,VP-D353,FU	
P054	AD97-08377A	ASSY-SPEAKER;DELTA2-PJ,SC-D103,SPEAKER	
W112	6003-001453	SCREW-TAPTITE;BH,+,B,M1.7,L4,ZPC(BLK)	
W117	6003-001490	SCREW-TAPTITE;PH,+,B,M1.7,L4,NI PLT,SWCH	

5-3 Ass'y Left (SCD352/SCD351)



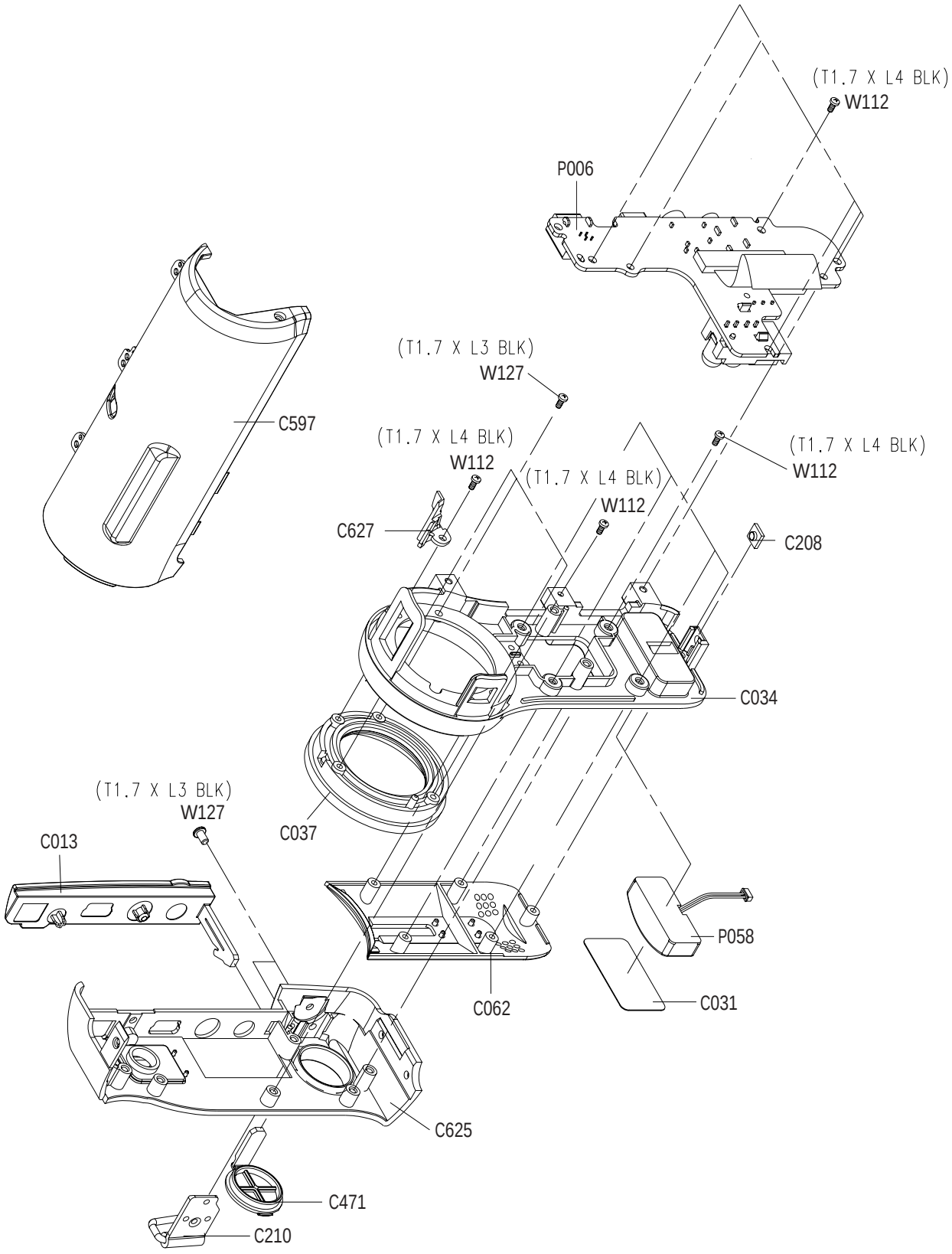
Loc. No	Parts No.	Description ; Specification	Remark
C001	AD63-00709A	COVER-LEFT;DRAGON-PJ,ABS,T14,W30,L58,-,-	
C002	AD61-01977E	CASE-LEFT;SC-D352,ABS 94HB,T25,W79,L99,S	SCD352 Only
	AD61-01977C	CASE-LEFT;SC-D351,ABS 94HB,T25,W79,L99,S	SCD351 Only
C003	AD61-01694A	HOLDER-TRIPOD;THETA3-PJ,PC,T1.0,W30,L14,	
C208	AD61-12033A	BRACKET-NUT;SV-D10,SECC,-,-,-,-,T0.8	
C622	AD64-01314A	BUTTON-FUNCTION A;DRAGON-PJ,ABS,W11xH10x	
C623	AD64-01315A	BUTTON-FUNCTION B;DRAGON-PJ,ABS,W45xH14x	
C626	AD63-00716A	COVER-DUMMY FUNCTION;DRAGON-PJ,ABS,T9,W1	
P003	AD97-09524B	ASSY-LEFT BOARD;DRAGON-PJ,NO Slot, EVF,L	SCD352/351 Only
P004	AD97-09526A	ASSY-FUNCTION BOARD;DRAGON-PJ,VP-D353,FU	
P054	AD97-08377A	ASSY-SPEAKER;DELTA2-PJ,SC-D103,SPEAKER	
W112	6003-001453	SCREW-TAPTITE;BH,+,B,M1.7,L4,ZPC(BLK)	
W117	6003-001490	SCREW-TAPTITE;PH,+,B,M1.7,L4,NI PLT,SWCH	

5-4 Ass'y LCD


L001
L015
(M2 X L4 BLK)
W120
C208
W116
(M1.7 X 2 WHT)
W118 (T1.4 X L3 WHT)
L017
W117
(M1.7 X 4 WHT)
L016
L014
L013
L053
W112
(T1.7 X 4 BLK)
C349
L011
SAMSUNG
L004
L008
W118
(T1.4 X 3 BLK)
L007
L009
L010
L006

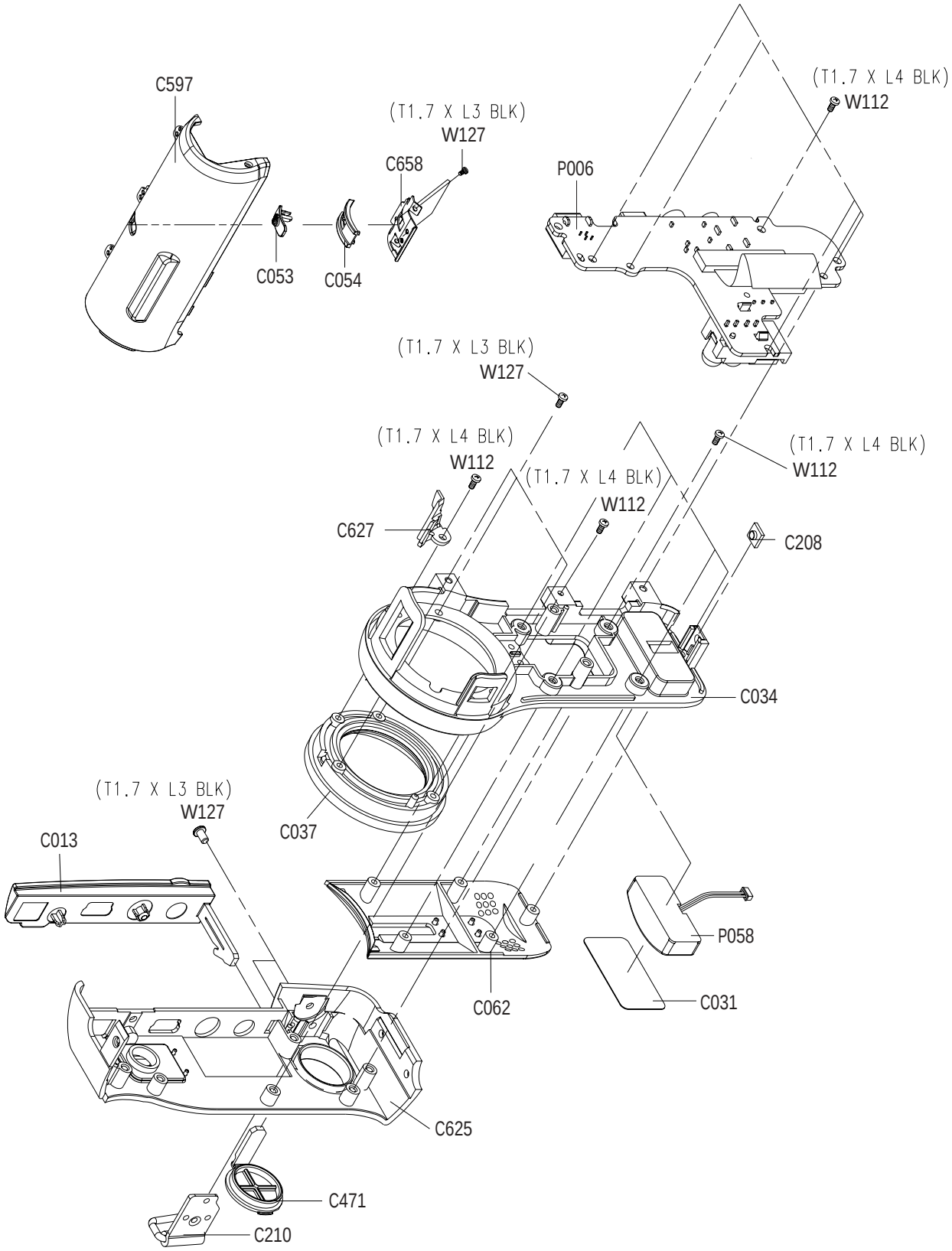
Loc. No	Parts No.	Description ; Specification	Remark
C208	AD61-12033A	BRACKET-NUT;SV-D10,SECC,-,-,-,-,T0.8	
C349	AD97-09664A	ASSY-LED BL;-,DELTA3-PJ,LED BACK LIGHT	
L001	AD97-09605C	ASSY-LCD;ASSY,SC-D353,-	SCD353 Only
	AD97-09605B	ASSY-LCD;ASSY,SC-D352,DRAGON-PJ	SCD352 Only
	AD97-09605A	ASSY-LCD;ASSY,SC-D351,-	SCD351 Only
L004	AD97-09599A	ASSY-LCD BOARD;DRAGON-PJ,DIGITAL,LCD BOA	
L006	AD61-01974C	CASE-LCD TOP;SC-D353,ABS 94HB,T7,W50,L70	SCD353 Only
	AD61-01974B	CASE-LCD TOP;SC-D352,ABS 94HB,T7,W50,L70	SCD352 Only
	AD61-01974A	CASE-LCD TOP;DRAGON-PJ,ABS 94HB,T7,W50,L	SCD351 Only
L007	AD64-01329A	LOCKER-LCD;DRAGON-PJ,POM,NATU,-,-,T3.5,W	
L008	AD63-00745A	COVER-LOCK LCD;DRAGON-PJ,ABS,T2,W5,L8,-,	
L009	AD61-01299A	SPRING ETC-LOCK LCD;THETA-PJ,SWPB,-,-,-,	
L010	AD64-01332B	INLAY-MS;DRAGON-PJ,PC,T0.6,W15,L15,SIL,	SCD353 Only
	AD64-01332C	INLAY-DV;DRAGON-PJ,PC,T0.6,W15,L15,SIL,	SCD352/351 Only
L011	AD64-00808A	BADGE-SAMSUNG;ALPHA_PJ,AL,T0.7,-,-,-,SIL	
L013	AD61-01975A	CASE-LCD BOTTOM;DRAGON-PJ,ABS 94HB,T4,W5	
L014	AD63-00562A	COVER-HINGE TOP 2.5;DELTA2-PJ,ABS 94V0,	
L015	AD63-00563A	COVER-HINGE BOTTOM 2.5;DELTA2-PJ,ABS 94	
L016	AD97-08469A	ASSY-HINGE;-,DELTA2-PJ,HINGE	
L017	AD97-06489A	ASSY-LCD FPC;.,DELTA-PJ,LCD FPC	
L053	AD07-00049A	LCD-PANNEL;A024CN02 V0,DELTA3-PJ,480*234	
W112	6003-001453	SCREW-TAPTITE;BH,+,B,M1.7,L4,ZPC(BLK)	
W116	6001-001527	SCREW-MACHINE;CH(0.3),+,M1.7,L2.0,NI PLT	
W117	6003-001490	SCREW-TAPTITE;PH,+,B,M1.7,L4,NI PLT,SWCH	
W118	6003-001291	SCREW-TAPTITE;CH,+,B,M1.4,L3.0,ZPC(BLK),	
W118	6003-001291	SCREW-TAPTITE;CH,+,B,M1.4,L3.0,ZPC(BLK),	
W120	6001-001716	SCREW-MACHINE;BH,+,M2,L4,NI PLT	

5-5 Ass'y Front (SCD353/SCD351)



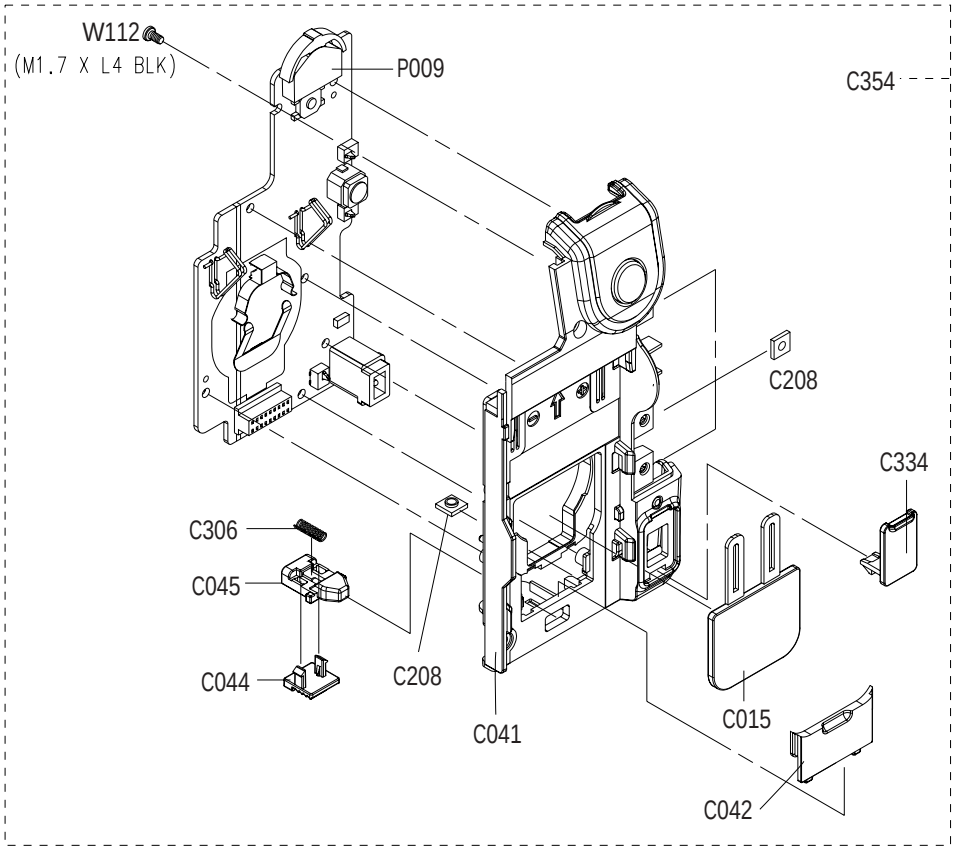
Loc. No	Parts No.	Description ; Specification	Remark
C013	AD63-00713A	COVER-JACK;DRAGON-PJ,ABS+URETHAN,T3,W8,L	
C031	AD63-00568A	SHEET-MIC;DELTA2-PJ,IŒ¡˜Ơ,T0.2,W12.2,L2	
C034	AD61-01976A	CASE-FRONT;DRAGON-PJ,ABS 94HB,T13,W20,L8	
C037	AD61-01984A	HOLDER-HOOD;DRAGON-PJ,PC,T10,W34,L34,BLK	
C062	AD63-00707A	COVER-FRONT;DRAGON-PJ,ABS,T5,W23,L55,-,-	
C208	AD61-12033A	BRACKET-NUT;SV-D10,SECC,-,-,-,-,T0.8	
C210	AD61-01993A	BRACKET-GRIP FRONT;DRAGON-PJ,SUS304 1/2H	
C471	AD63-00705A	COVER-S JACK;DRAGON-PJ,URETHAN,T3,W14,L1	
C597	AD63-00711A	COVER-TOP;DRAGON-PJ,ABS,T34,W38,L102,-,-	
C625	AD63-00714A	COVER-DUMMY FRONT;DRAGON-PJ,ABS 94HB,T23	SCD353 Only
	AD63-00714B	COVER-DUMMY FRONT;DRAGON-PJ,ABS 94HB,T23	SCD351 Only
C627	AD63-00719A	COVER-DUMMY TOP;DRAGON-PJ,PC,T11,W11,L8,	
P006	AD97-09525F	ASSY-JACK BOARD;DRAGON-PJ,USB,JACK BOARD	SCD353 Only
	AD97-09525B	ASSY-JACK BOARD;DRAGON-PJ,ALL(X),JACK BO	SCD351 Only
P058	AD97-08597A	ASSY-UNIT MIC;-,THETA2-PJ,UNIT MIC	
W112	6003-001453	SCREW-TAPTITE;BH,+,B,M1.7,L4,ZPC(BLK)	
W127	6003-001292	SCREW-TAPTITE;CH(0.3),+,B,M1.7,L3,ZPC(BL	

5-6 Ass'y Front (SCD352)



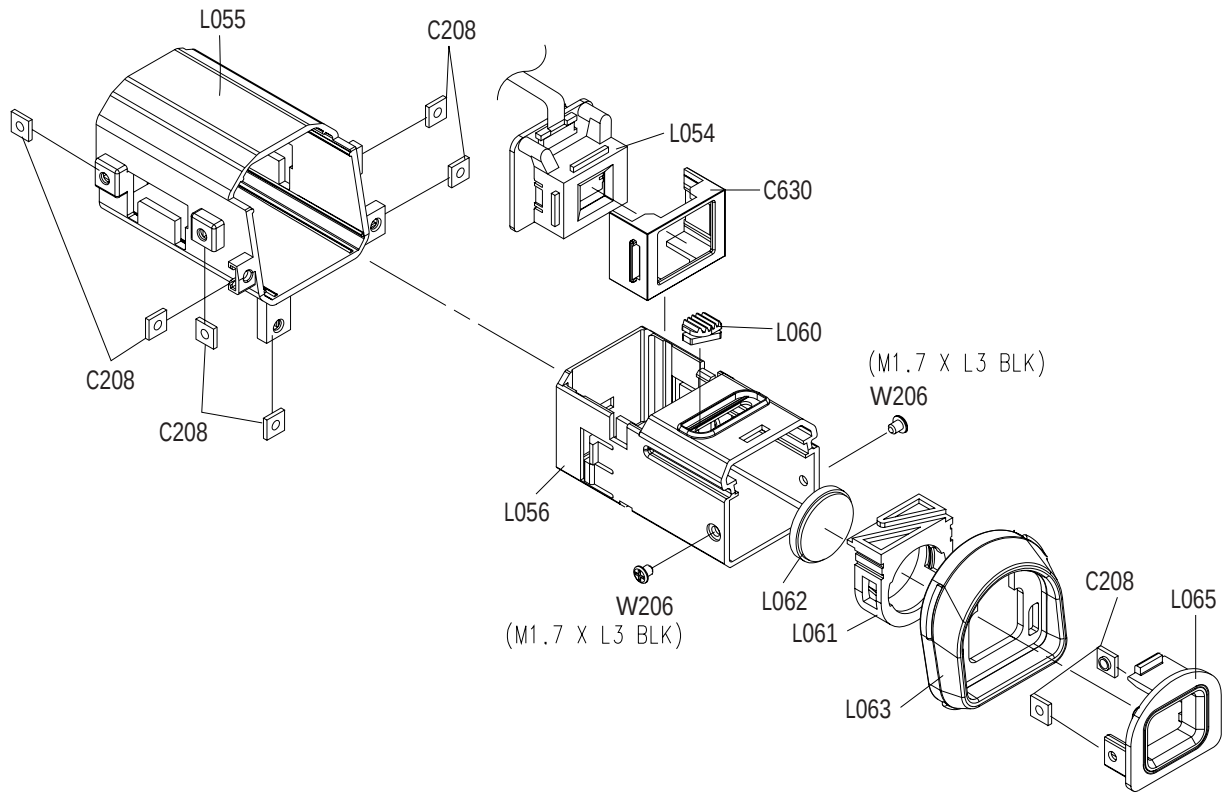
Loc. No	Parts No.	Description ; Specification	Remark
C013	AD63-00713A	COVER-JACK;DRAGON-PJ,ABS+URETHAN,T3,W8,L	
C031	AD63-00568A	SHEET-MIC;DELTA2-PJ,ICE¡˜O˜,T0.2,W12.2,L2	
C034	AD61-01976A	CASE-FRONT;DRAGON-PJ,ABS 94HB,T13,W20,L8	
C037	AD61-01984A	HOLDER-HOOD;DRAGON-PJ,PC,T10,W34,L34,BLK	
C053	AD64-01319A	KNOB-NIGHT SHOT;DRAGON-PJ,ABS 94HB,T6,W1	
C054	AD61-01985A	HOLDER-NIGHT SHOT;DRAGON-PJ,ABS,T12,W15,	
C062	AD63-00707A	COVER-FRONT;DRAGON-PJ,ABS,T5,W23,L55,-,-	
C208	AD61-12033A	BRACKET-NUT;SV-D10,SECC,-,-,-,-,T0.8	
C210	AD61-01993A	BRACKET-GRIP FRONT;DRAGON-PJ,SUS304 1/2H	
C471	AD63-00705A	COVER-S JACK;DRAGON-PJ,URETHAN,T3,W14,L1	
C597	AD63-00710A	COVER-TOP;DRAGON-PJ,ABS,T34,W38,L102,-,-	
C625	AD63-00714A	COVER-DUMMY FRONT;DRAGON-PJ,ABS 94HB,T23	
C627	AD63-00719A	COVER-DUMMY TOP;DRAGON-PJ,PC,T11,W11,L8,	
C658	AD61-01995A	BRACKET-NIGHT SHOT;DRAGON-PJ,SUS304 1/2H	
P006	AD97-09525E	ASSY-JACK BOARD;DRAGON-PJ,USB, LED, NITE	
P058	AD97-08597A	ASSY-UNIT MIC;-,THETA2-PJ,UNIT MIC	
W112	6003-001453	SCREW-TAPTITE;BH,+,B,M1.7,L4,ZPC(BLK)	
W127	6003-001292	SCREW-TAPTITE;CH(0.3),+,B,M1.7,L3,ZPC(BL	
W127	6003-001292	SCREW-TAPTITE;CH(0.3),+,B,M1.7,L3,ZPC(BL	

5-7 Ass'y Rear



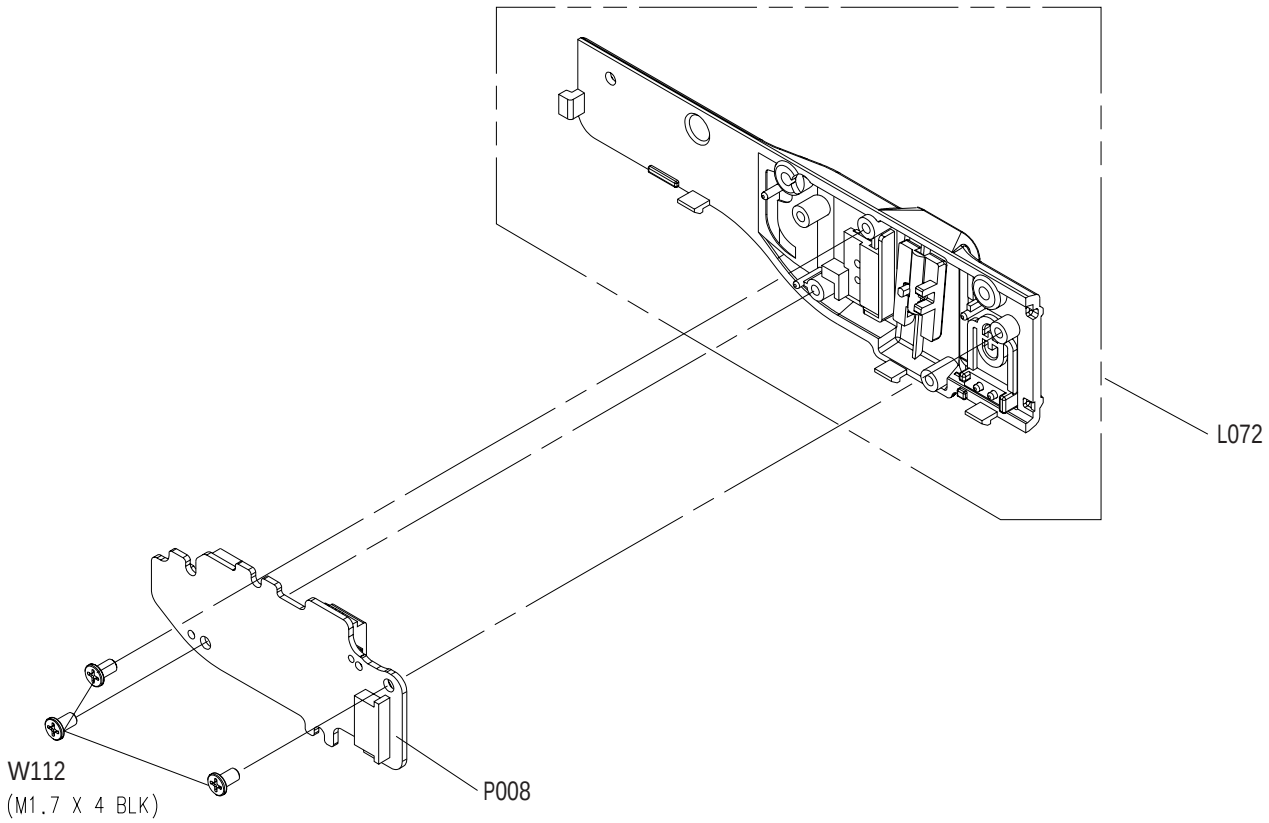
Loc. No	Parts No.	Description ; Specification	Remark
C015	AD63-00527D	COVER-LI BATTERY;OMEGA2-PJ(2M),ABS94+URE	
C042	AD63-00584B	COVER-JIG;OMEGA2-PJ(2M),ABS 94HB,T2,W20,	
C044	AD64-01156B	KNOB-BATTERY EJECT;DRAGON-PJ,ABS 94HB,T5	
C045	AD61-01980A	HOLDER-BATT EJECT;DRAGON-PJ,ABS,T3.2,W9,	
C208	AD61-12033A	BRACKET-NUT;SV-D10,SECC,-,-,-,-,T0.8	
C306	AD61-01625B	SPRING ETC-BATTERY EJECT;THETA2-PJ,SUS30	
C334	AD63-00704A	COVER-DC JACK;DRAGON-PJ,URETHAN,T7,W8.2,	
C354	AD97-09612A	ASSY-REAR;ASSY,DRAGON-PJ,-	
P009	AD97-09529A	ASSY-REAR BOARD;DRAGON-PJ,SC-D353,REAR B	
W112	6003-001453	SCREW-TAPTITE;BH,+,B,M1.7,L4,ZPC(BLK)	

5-8 Ass'y EVF



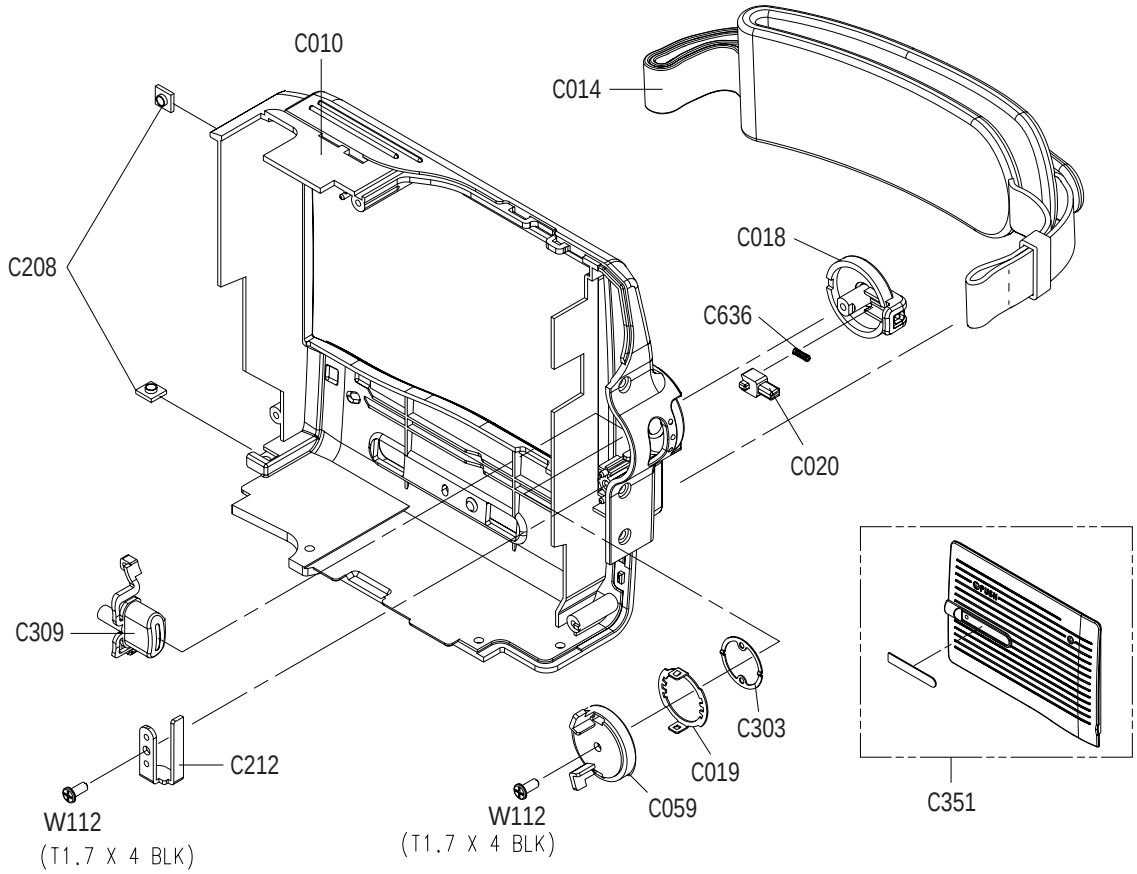
Loc. No	Parts No.	Description ; Specification	Remark
C208	AD61-12033A	BRACKET-NUT;SV-D10,SECC,-,-,-,-,T0.8	
C630	AD61-01983A	HOLDER-FRAMELESS;DRAGON-PJ,ABS,T8.7,W15.	
L054	AD97-09687A	ASSY-UNIT-EVF(NTSC);-,DRAGON-PJ,UNIT-EVF	
L055	AD61-01972A	CASE-EVF MAIN;DRAGON-PJ,PC/ABS,T32,W32,L	
L056	AD61-01973A	CASE-EVF SLIDE;DRAGON-PJ,ABS 94V0,T21.7,	
L060	AD64-01165B	KNOB-EVF;DRAGON-PJ,POM,T4.5,W3.6,L5,-,G	
L061	AD61-01609A	HOLDER-LENS EVF;DELTA2-PJ,ABS 94 HB,T7.8	
L062	AD67-00250A	LENS-EVF 18X-G1;SHML-PJ,PMMA,WHITE,15,6,	
L063	AD73-00145A	RUBBER-EYE CUP;DRAGON-PJ,URETHANE,W10.8x	
L065	AD61-01982A	HOLDER-EYE CUP;DRAGON-PJ,ABS,T7.1,W18.5,	
W206	6001-001373	SCREW-MACHINE;PH,T0.5,+,M1.7,L3.0,BLK,SW	

5-9 Ass'y Zoom



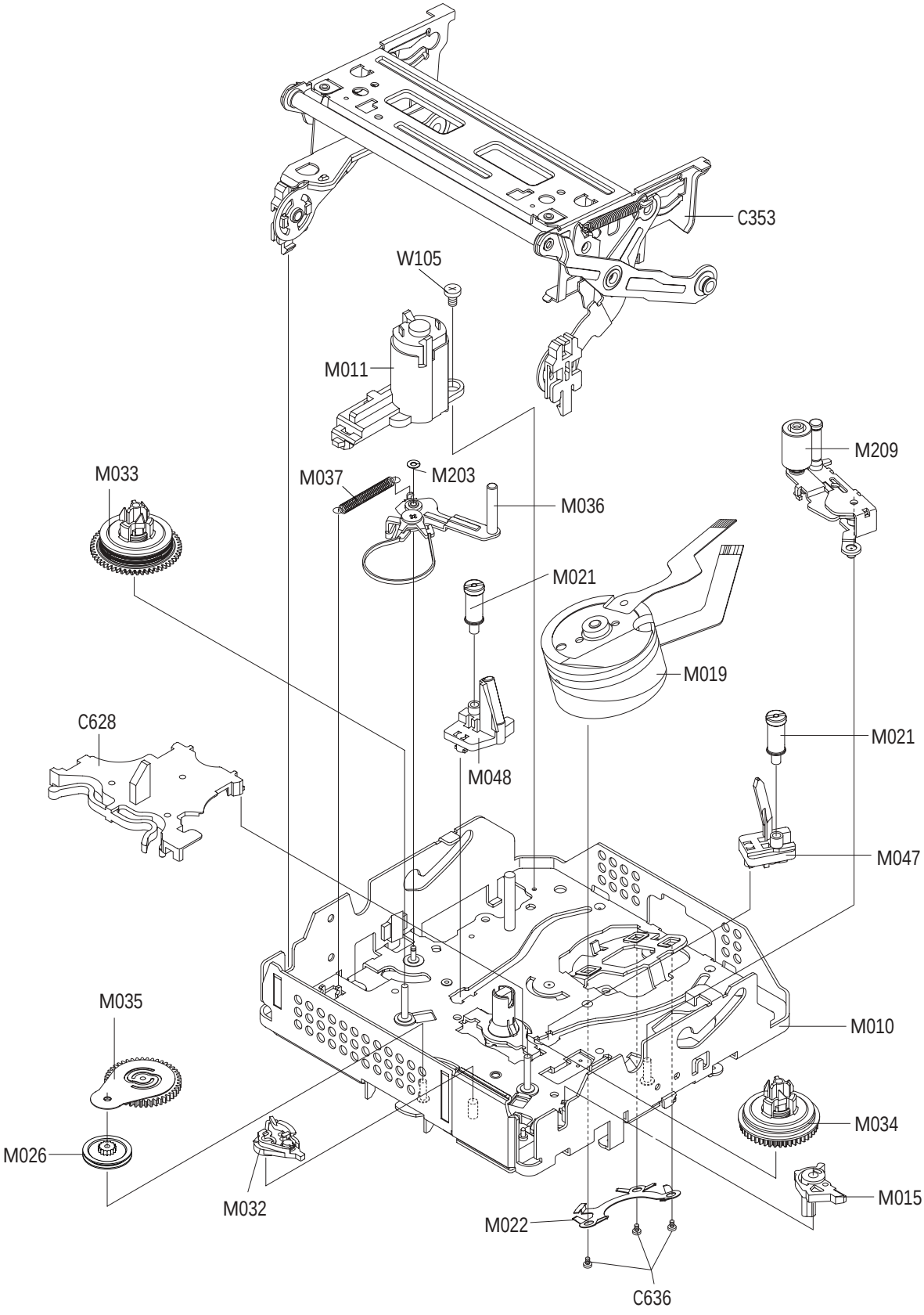
Loc. No	Parts No.	Description ; Specification	Remark
L072	AD97-09683A	ASSY-CASE ZOOM;ASSY,DRAGON-PJ,EXPORT	
P008	AD97-09527A	ASSY-TOP BOARD;DRAGON-PJ,SC-D353,TOP BOA	
W112	6003-001453	SCREW-TAPTITE;BH,+,B,M1.7,L4,ZPC(BLK)	

5-10 Ass'y Case Right



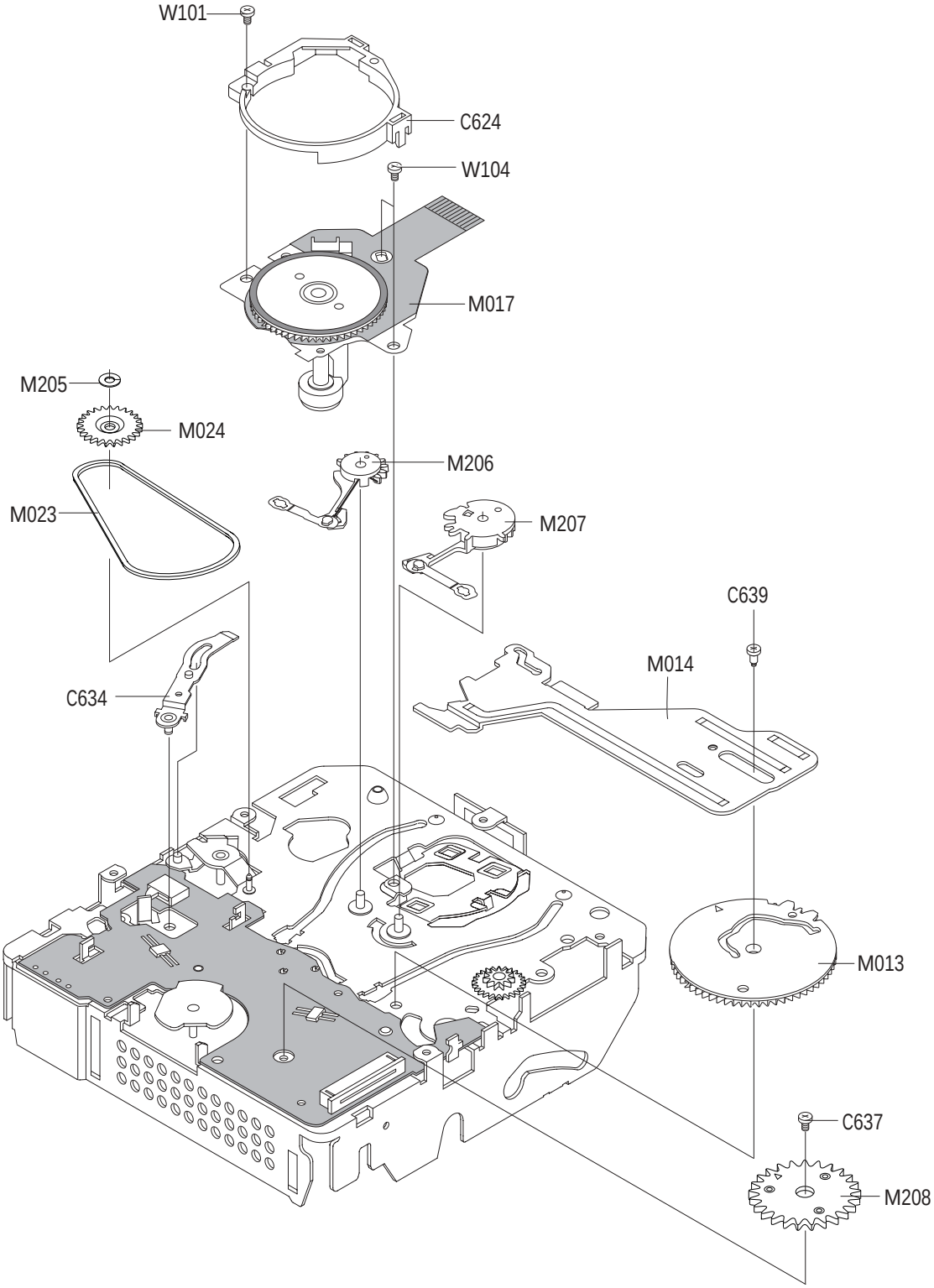
Loc. No	Parts No.	Description ; Specification	Remark
C010	AD61-01978A	CASE-RIGHT;DRAGON-PJ,ABS 94HB,T36,W85,L1	
C014	AD59-00139A	UNIT-BELT GRIP;DRAGON-PJ,-,LEATHER,-,-,-	
C018	AD64-01321A	KNOB-POWER;DRAGON-PJ,ABS,T7.4,W16,L18.1,	
C019	AD61-01996A	PLATE-POWER;DRAGON-PJ,SUS 305 1/2H,T0.5,	
C020	AD64-01325A	LOCKER-POWER;DRAGON-PJ,POM,GREEN,-,-,T3.	
C059	AD61-01986A	HOLDER-POWER;DRAGON-PJ,ABS,T7.3,W14.5,L1	
C208	AD61-12033A	BRACKET-NUT;SV-D10,SECC,-,-,-,-,T0.8	
C212	AD61-01307A	BRACKET-GRIP BACK;THETA-PJ,SUS,T0.8,-,-,	
C303	AD61-01169A	SPRING ETC-PLATE RECORD;DELTA-PJ,SUS ,-,	
C309	AD64-01317A	BUTTON-REC;DRAGON-PJ,ABS+PC,W6.2xL16.5xH	
C351	AD97-09609A	ASSY-COVER HOUSING;ASSY,DRAGON-PJ,-	
C636	AD61-02006A	SPRING ETC-POWER;DRAGON-PJ,SUS,0.16,1,1.	
W112	6003-001453	SCREW-TAPTITE;BH,+,B,M1.7,L4,ZPC(BLK)	

5-11 Mechanical Parts (Main Chassis)



Loc. No	Parts No.	Description ; Specification	Remark
C353	AD97-09363A	ASSY-HOUSING;ASSY,DD-10,-	
C628	AD63-00650A	COVER-REEL;DD-10,DURACON M90-44,-,-,-,-	
C638	AD61-01925A	STUD-GUIDE DRUM;DD-10,SWCH16A,-,OD1.4,L4	
M010	AD97-09504A	ASSY-MAIN CHASSIS;ASSY,DD-10,-	
M011	AD97-09506A	ASSY-LOADING MOTOR;ASSY,DD-10,-	
M015	AD66-00322A	LEVER-EJECT;DD-10,POM(DURACON MS-02),-,-	
M019	AD97-09582A	ASSY-DRUM;ASSY,DD-10,FP2 layer,TOE	
M019	AD97-09689A	ASSY-DRUM;ASSY,DD-10,Coil Motor,TOE	
M021	AD61-01923A	GUIDE-ROLLER;DD-10,HE73M,D3.2,-,-,-,-	
M022	AD61-01864A	PLATE-SPRING BASE;DD-10,SUS303,T0.15,-,-	
M026	AD66-00316A	GEAR-PULLEY;DD-10,DURACON (M90-44),-,-,-	
M032	AD97-09367A	ASSY-BRAKE T;ASSY,DD-10,-	
M033	AD97-09364A	ASSY-REEL DISK S;ASSY,DD-10,-	
M034	AD97-09365A	ASSY-REEL DISK T;ASSY,DD-10,-	
M035	AD97-09366A	ASSY-IDLER;ASSY,DD-10,-	
M036	AD97-09362A	ASSY-ARM TENSION;ASSY,DD-10,-	
M037	AD61-01904A	SPRING ETC-TENSION;-,SUS304 WPB,0.16,-,-	
M047	AD97-09360A	ASSY-POLE BASE T;ASSY,DD-10,-	
M048	AD97-09359A	ASSY-POLE BASE S;ASSY,DD-10,-	
M203	6031-001430	WASHER-PLAIN;POLYSLIDER,-,ID0.8,D2.5,T0.	
M209	AD97-09361A	ASSY-PINCH REVIEW;ASSY,DD-10,-	
W105	6001-001590	SCREW-MACHINE;PH,+,M1.4,L2.2,ZPC(BLK),SW	

5-12 Mechanical Parts (Sub Chassis)



Loc. No	Parts No.	Description ; Specification	Remark
C624	AD63-00672A	COVER-CAPSTAN;DD-10,POM(DURACON M90-44),	
C634	AD66-00318A	LEVER-REVIEW;DD-10,SECC,T0.5,-,-,-,-,-	
C637	AD61-01916A	STUD-GEAR-MODE-SWITCH;DD-10,SWRCH18A,T2.	
C639	AD61-01917A	STUD-SLIDE MAIN;DD-10,SWRCH18A,T2.6,-,L5	
M013	AD66-00312A	GEAR-CAM MAIN;DD-10,POM(TR-20),-,-,-,-,-	
M014	AD66-00327A	SLIDER-MAIN;DD-10,SECC,T0.5,-,-,-,-	
M017	AD97-09242A	ASSY-CAPSTAN MOTOR;ASSY,DD-10,f/HYKMKI	
M023	AD66-00330A	PULLEY-BELT TIMING;DD-10,POLYURETHAN Z,-	
M024	AD66-00313A	GEAR-CAPSTAN;DD-10,DYAMID(L1742K),-,-,-,	
M205	6031-001432	WASHER-PLAIN;POLYSLIDE,M2.5,ID1.6,OD2.5,	
M206	AD97-09357A	ASSY-ARM LOADING S;ASSY,DD-10,-	
M207	AD97-09358A	ASSY-ARM LOADING T;ASSY,DD-10,-	
M208	AD97-09374A	ASSY-GEAR MODE SWITCH;ASSY,DD-10,-	
W101	6001-001575	SCREW-MACHINE;PH,+,M1.4,L3.5,ZPC(WHT),SW	
W104	6001-001715	SCREW-MACHINE;BH,+,M1.4,L2.2,ZPC(BLK)	

6. Electrical Parts List

Loc.No	Part No	Description ; Specification	Remark
P001	**AD97-09528A**	**ASSY-MAIN BOARD;DRAGON-PJ,SC-D353,MAIN B**	**SCD353 Only**
	AD97-09528C	**ASSY-MAIN BOARD;DRAGON-PJ,SC-D352,MAIN B**	**SCD352 Only**
	AD97-09528E	**ASSY-MAIN;DRAGON-PJ,SC-D351,MAIN BOARD(N**	**SCD351 Only**
B301	2901-001022	CORE-FERRITE BEAD;60ohm,1.6x0.8x0.8mm,20	
B302	2901-001022	CORE-FERRITE BEAD;60ohm,1.6x0.8x0.8mm,20	
B303	2901-001022	CORE-FERRITE BEAD;60ohm,1.6x0.8x0.8mm,20	
BM01	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
BM02	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
BM03	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
BM04	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
BM05	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
BM06	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
BM07	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
BM08	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
BM09	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
BM10	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
BM73	2703-001883	INDUCTOR-SMD;22uH,10%,2520	
C111	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	
C112	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	
C113	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C114	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C115	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C116	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C117	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C118	2203-002487	C-CER,CHIP;4.7nF,10%,25V,X7R,1005	
C120	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C121	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C122	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C123	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C124	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C200	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C201	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C202	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C203	2203-001126	C-CER,CHIP;0.68nF,10%,50V,X7R,1608	
C204	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C205	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C206	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C207	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C208	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C209	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C210	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C211	2203-005627	C-CER,CHIP;470NF,10%,10V,X5R,TP,1608	
C212	2203-005923	C-CER,CHIP;1000NF,20%,6.3V,X5R,TP,1608	
C213	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C214	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C215	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C216	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C217	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C218	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C219	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C220	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C221	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C222	2203-006006	C-CER,CHIP;0.005NF,°æ0.25PF,50V,C0G,TP,1	
C223	2203-006006	C-CER,CHIP;0.005NF,°æ0.25PF,50V,C0G,TP,1	
C224	2203-006006	C-CER,CHIP;0.005NF,°æ0.25PF,50V,C0G,TP,1	
C225	2203-006006	C-CER,CHIP;0.005NF,°æ0.25PF,50V,C0G,TP,1	
C226	2203-000585	C-CER,CHIP;0.22NF,10%,50V,X7R,TP,1005	
C227	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP,3216	
C228	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C229	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C230	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	

Loc.No	Part No	Description ; Specification	Remark
C231	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
C232	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	
C233	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C234	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	
C235	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C236	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP,3216	
C237	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C238	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	
C239	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C240	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C241	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C242	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C243	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	
C244	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C245	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C246	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C247	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C300	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C301	2404-001254	C-TA,CHIP;220uF,20%,2.5V,-,TP,3.5(L)X2.8	
C302	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C303	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C304	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C305	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C306	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C307	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C308	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C309	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C310	2404-000167	C-TA,CHIP;2.2uF,20%,16V,-,TP,3216	
C311	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C312	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C316	2203-002487	C-CER,CHIP;4.7nF,10%,25V,X7R,1005	
C317	2203-005993	C-CER,CHIP;68NF,10%,16V,X7R,TP,1005	
C318	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C319	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C320	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C321	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C322	2404-001254	C-TA,CHIP;220uF,20%,2.5V,-,TP,3.5(L)X2.8	
C323	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C324	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C325	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C326	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C327	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C328	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C329	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C330	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C331	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C333	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C334	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C335	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C336	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C337	2203-000330	C-CER,CHIP;0.012NF,5%,50V,C0G,TP,1005	
C401	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C402	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C403	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C406	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C407	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C408	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C409	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C411	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C412	2404-001269	C-TA,CHIP;10uF,20%,20V,-,TP,3528	
C413	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	

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Loc.No	Part No	Description ; Specification	Remark
C416	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C417	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C418	2203-002487	C-CER,CHIP;4.7nF,10%,25V,X7R,1005	
C419	2203-005481	C-CER,CHIP;47nF,10%,10V,X7R,TP,1005,-	
C420	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C421	2203-005923	C-CER,CHIP;1000NF,20%,6.3V,X5R,TP,1608	
C422	2203-000234	C-CER,CHIP;0.1NF,5%,50V,C0G,TP,1005	
C423	2203-000234	C-CER,CHIP;0.1NF,5%,50V,C0G,TP,1005	
C424	2203-000234	C-CER,CHIP;0.1NF,5%,50V,C0G,TP,1005	
C425	2203-006047	C-CER,CHIP;33NF,10%,16V,X7R,TP,1005	
C426	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C427	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C428	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C429	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C430	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,1005	
C431	2203-000489	C-CER,CHIP;2.2nF,10%,50V,X7R,1005	
C432	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C505	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C506	2203-000714	C-CER,CHIP;3.3nF,10%,50V,X7R,TP,1005,-	
C507	2203-006006	C-CER,CHIP;0.005NF,°æ0.25PF,50V,C0G,TP,1	
C508	2203-000278	C-CER,CHIP;0.01nF,0.5pF,50V,C0G,1005	
C509	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C510	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C512	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C513	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C514	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C515	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C516	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C517	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
C518	2203-002717	C-CER,CHIP;10nF,+80-20%,50V,Y5V,TP,1005	
C519	2203-002982	C-CER,CHIP;6.8nF,10%,50V,X7R,TP,1005	
C520	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C521	2203-002982	C-CER,CHIP;6.8nF,10%,50V,X7R,TP,1005	
C523	2404-001246	C-TA,CHIP;10uF,20%,6.3V,WT,TP,2012	
C526	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C527	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	
C528	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C529	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C530	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C601	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C602	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C603	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C604	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C605	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C606	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-	
C607	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-	
C608	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C609	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C611	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C612	2404-001039	C-TA,CHIP;47uF,20%,6.3V,GP,TP,3528,-	
C613	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C614	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C615	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP,3216	
C616	2203-005686	C-CER,CHIP;2200nF,20%,10V,X5R,TP,2012	
C617	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C618	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C621	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C622	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C623	2203-005686	C-CER,CHIP;2200nF,20%,10V,X5R,TP,2012	
C624	2404-000151	C-TA,CHIP;1uF,20%,16V,-,TP,3216	
C625	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C626	2404-000232	C-TA,CHIP;4.7uF,20%,10V,-,TP,3216	
C627	2203-005887	C-CER,CHIP;680NF,+80-20%,10V,Y5V,TP,1608	
C628	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C629	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C630	2203-005686	C-CER,CHIP;2200nF,20%,10V,X5R,TP,2012	
C631	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C632	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C633	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C634	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C635	2203-002487	C-CER,CHIP;4.7nF,10%,25V,X7R,1005	
C636	2203-002487	C-CER,CHIP;4.7nF,10%,25V,X7R,1005	
C701	2404-001269	C-TA,CHIP;10uF,20%,20V,-,TP,3528	
C703	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP,3528	
C704	2203-005686	C-CER,CHIP;2200nF,20%,10V,X5R,TP,2012	
C705	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	
C706	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	
C707	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	
C708	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,TP,1608	
C709	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	
C710	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
C711	2203-000585	C-CER,CHIP;0.22NF,10%,50V,X7R,TP,1005	
C712	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	
C713	2203-000438	C-CER,CHIP;1nF,10%,50V,X7R,1005	
C714	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	
C715	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	
C716	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	
C717	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	
C718	2203-005344	C-CER,CHIP;22nF,10%,25V,X7R,TP,1005,-	
C719	2203-006320	C-CER,CHIP;2200nF,10%,16V,X7R,TP,2012	
C720	2203-005686	C-CER,CHIP;2200nF,20%,10V,X5R,TP,2012	
C721	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	
C723	2203-006320	C-CER,CHIP;2200nF,10%,16V,X7R,TP,2012	
C724	2203-005686	C-CER,CHIP;2200nF,20%,10V,X5R,TP,2012	
C725	2404-000284	C-TA,CHIP;10uF,20%,16V,-,TP,3528	
C727	2203-006320	C-CER,CHIP;2200nF,10%,16V,X7R,TP,2012	
C728	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C729	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C730	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C731	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C732	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C737	2203-006320	C-CER,CHIP;2200nF,10%,16V,X7R,TP,2012	SCD352 Only
C738	2203-005686	C-CER,CHIP;2200nF,20%,10V,X5R,TP,2012	SCD352 Only
C739	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	SCD352 Only
C741	2203-006320	C-CER,CHIP;2200nF,10%,16V,X7R,TP,2012	
C742	2203-005686	C-CER,CHIP;2200nF,20%,10V,X5R,TP,2012	
C743	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
C745	2203-006320	C-CER,CHIP;2200nF,10%,16V,X7R,TP,2012	
C746	2203-005922	C-CER,CHIP;4700NF,20%,6.3V,X5R,TP,2012	
C747	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C749	2203-006320	C-CER,CHIP;2200nF,10%,16V,X7R,TP,2012	
C750	2203-005921	C-CER,CHIP;10000NF,20%,4V,X5R,TP,2012	
C751	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C753	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C754	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C755	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C756	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C757	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C758	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C759	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C760	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C761	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C762	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C763	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C764	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C765	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
C768	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C769	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C771	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C772	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C773	2404-000157	C-TA,CHIP;1uF,20%,35V,-,TP,3216	
C774	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	

Loc.No	Part No	Description ; Specification	Remark
C775	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C776	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C777	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C778	2203-005686	C-CER,CHIP;2200nF,20%,10V,X5R,TP,2012	
C779	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
C780	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
CA17	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CA31	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CA32	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
CA33	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CA34	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CA35	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CA37	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CA38	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
CM01	2203-001221	C-CER,CHIP;0.82NF,10%,50V,X7R,TP,1005	
CM03	2203-000696	C-CER,CHIP;0.002NF,0.25PF,50V,C0G,TP,100	
CM04	2203-000696	C-CER,CHIP;0.002NF,0.25PF,50V,C0G,TP,100	
CM05	2203-001221	C-CER,CHIP;0.82NF,10%,50V,X7R,TP,1005	
CM06	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM07	2404-001246	C-TA,CHIP;10uF,20%,6.3V,WT,TP,2012	
CM08	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM09	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM10	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM102	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM103	2404-001246	C-TA,CHIP;10uF,20%,6.3V,WT,TP,2012	
CM11	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM12	2404-001246	C-TA,CHIP;10uF,20%,6.3V,WT,TP,2012	
CM14	2404-001246	C-TA,CHIP;10uF,20%,6.3V,WT,TP,2012	
CM15	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM16	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM17	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM18	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM19	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM24	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM27	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM28	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM29	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM30	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM31	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM32	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM33	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM34	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM35	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM36	2404-001246	C-TA,CHIP;10uF,20%,6.3V,WT,TP,2012	
CM42	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM43	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM44	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM45	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM46	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM47	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM49	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM50	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM51	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM53	2404-001246	C-TA,CHIP;10uF,20%,6.3V,WT,TP,2012	
CM54	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM61	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM62	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM75	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM76	2404-001246	C-TA,CHIP;10uF,20%,6.3V,WT,TP,2012	
CM91	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CM92	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CN101	3708-001842	CONNECTOR-FPC/FFC/PIC;7P,0.5MM,SMD-A,TIN	
CN301	3708-001813	CONNECTOR-FPC/FFC/PIC;45P,0.5MM,SMD-A,SN	
CN302	3708-001505	CONNECTOR-FPC/FFC/PIC;36P,0.5MM,SMD-A,SN	
CN401	3708-001292	CONNECTOR-FPC/FFC/PIC;18P,0.5MM,SMD-A,SN	
CN402	3708-001405	CONNECTOR-FPC/FFC/PIC;24P,0.5MM,SMD-A,SN	
CN403	3708-001662	CONNECTOR-FPC/FFC/PIC;10P,0.5MM,SMD-A-ZI	
CN503	3711-005479	CONNECTOR-HEADER;BOX,22P,2R,0.5mm,SMD-S,	
CN701	3710-000554	CONNECTOR-SOCKET;40P,2R,0.8mm,SMD-A,SN	
CNM01	3708-000363	CONNECTOR-FPC/FFC/PIC;20P,0.5MM,SMD-A,SN	SCD353 Only
CNP01	3710-000554	CONNECTOR-SOCKET;40P,2R,0.8mm,SMD-A,SN	
CP01	2404-000157	C-TA,CHIP;1uF,20%,35V,-,TP,3216	
CP02	2404-000212	C-TA,CHIP;3.3uF,20%,25V,-,TP,3528	
CP03	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP04	2404-000157	C-TA,CHIP;1uF,20%,35V,-,TP,3216	
CP06	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CP07	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP08	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CP09	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP10	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CP11	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CP12	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
CP13	2203-000815	C-CER,CHIP;0.033NF,5%,50V,C0G,TP,1608	
CP14	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
CP15	2404-001131	C-TA,CHIP;22UF,10%,10V,GP,TP,3528	
CP16	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP17	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP18	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP19	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP20	2203-001086	C-CER,CHIP;0.005nF,0.25pF,50V,NP0,TP,160	
CP21	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP22	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CP23	2404-001251	C-TA,CHIP;22UF,20%,7V,-,TP,3216	
CP24	2203-001405	C-CER,CHIP;22nF,+80-20%,25V,Y5V,TP,1005	
CP25	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP26	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP27	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP28	2203-006047	C-CER,CHIP;33NF,10%,16V,X7R,TP,1005	
CP30	2203-006047	C-CER,CHIP;33NF,10%,16V,X7R,TP,1005	
CP33	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP35	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP36	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
CP37	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP38	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP39	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP40	2203-000359	C-CER,CHIP;0.15NF,5%,50V,C0G,TP,1005	
CP41	2203-006048	C-CER,CHIP;100NF,10%,10V,X7R,TP,1005	
CP44	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CP45	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
CP47	2203-006047	C-CER,CHIP;33NF,10%,16V,X7R,TP,1005	
D501	0401-001054	DIODE-SWITCHING;KDS160,80V,100MA,SOD-323	
D502	0401-001054	DIODE-SWITCHING;KDS160,80V,100MA,SOD-323	
D701	0401-001059	DIODE-SWITCHING;1SS362,80V,80MA,SC-75,TP	
D702	0401-001059	DIODE-SWITCHING;1SS362,80V,80MA,SC-75,TP	
D703	0401-001059	DIODE-SWITCHING;1SS362,80V,80MA,SC-75,TP	
D704	0404-001096	DIODE-SCHOTTKY;1SS393,40V,100mA,SOT-323,	
DM01	0404-000110	DIODE-SCHOTTKY;RB411D,20V,500MA,SOT-23,T	
DM02	0404-000110	DIODE-SCHOTTKY;RB411D,20V,500MA,SOT-23,T	
F301	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
F302	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
F303	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
FUSE23	3601-001331	FUSE-SURFACE MOUNT;32V,1.25A,SLOW BLOW,,	
FUSE67	3601-001331	FUSE-SURFACE MOUNT;32V,1.25A,SLOW BLOW,,	
IC101	AD13-00019A	IC ASIC-LDV5000,PRML;LDV5000,DELTA-PJ,64	
IC102	1201-001511	IC-PREAMP;LD3502,TSSOP,14P,-,DUAL,500V/V	
IC201	AD13-00033A	IC ASIC;GLOBALi,DELTA3-PJ,337,1.2V, 3.	
IC202	1204-000365	IC-VIDEO SYSTEM;LM1881M,SOP,8P,150MIL,PL	
IC203	1001-001304	IC-ANALOG SWITCH;ISL84714,Analog Signal	
IC204	1205-001988	IC-DATA COMM./GEN.;TSB41AB1-PAP,QFP,64P,	
IC301	1201-001322	IC-VIDEO AMP;NJM2538V,SOP,20P,175MIL,-,-	
IC302	1003-001806	IC-LCD DRIVER;S5D4100X,FBGA,88P,7x7mm,-,	
IC303	1203-003630	IC-POSI.FIXED REG.;TK71718SCL-G,SOT23-5,	

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Loc.No	Part No	Description ; Specification	Remark
IC401	1003-001680	IC-MOTOR DRIVER;LB11993W,SQPF,64P,12x12x	
IC402	AC14-12012T	IC-OP AMP;TA75S01F(TE85L),QFP,-	
IC501	AD09-00258A	IC MICOM;TMP1962F10,RAPIDO,257,-,13.5Mh	
IC502	0909-001013	IC-REAL TIME CLOCK;5C372,8BIT,SOP,8P,-,3	
IC503	1203-002807	IC-POSI.FIXED REG.;XC6413FY01MR,SOT-25,5	
IC504	0801-002417	IC-CMOS LOGIC;7SHU04,INVERTER,SSOP,5P,49	
IC505	1103-001218	IC-EEPROM;524AB0X91,4Kx8,SOP,8P,5.13x4mm	
IC601	1205-002634	IC-CODEC;BU7806-01KV,VQFP,48P,7x7mm,PLA	
IC701	1203-003567	IC-PWM CONTROLLER;BD9833KV,VQFP,48P,7x7m	
ICA02	1105-001605	IC-DRAM;K4S283233F,4x1Mx32Bit,FBGA,90P	
ICA03	1107-001365	IC-FLASH MEMORY;29LV160BE,1Mx16/2Mx8Bit,	
ICM01	AD13-00028A	IC ASIC-DSP;S5C7376,SPDIER-PJ,337,1.2V,	
ICP01	1003-001065	IC-CLOCK DRIVER;KS7221D,SOP,20P,225MIL,Q	
ICP02	1002-001270	IC-A/D CONVERTER;TLV990BPFB,10,TQFP,48P,	
ICP03	1003-001801	IC-MOTOR DRIVER;uPD168103,WQFN,48P,7.0x7	
L112	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
L113	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
L200	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
L201	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
L202	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
L203	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
L204	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
L301	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
L302	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
L303	2703-000396	INDUCTOR-SMD;10uH,10%,2520	
L304	2703-000396	INDUCTOR-SMD;10uH,10%,2520	
L401	2703-000396	INDUCTOR-SMD;10uH,10%,2520	
L501	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
L502	2703-000371	INDUCTOR-SMD;4.7uH,5%,2520	
L601	2703-000371	INDUCTOR-SMD;4.7uH,5%,2520	
L602	2703-000396	INDUCTOR-SMD;10uH,10%,2520	
L603	2703-000396	INDUCTOR-SMD;10uH,10%,2520	
L604	2703-000396	INDUCTOR-SMD;10uH,10%,2520	
L701	2703-000408	INDUCTOR-SMD;3.3uH,20%,3225	
L702	2703-000408	INDUCTOR-SMD;3.3uH,20%,3225	
L703	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
L704	2703-002569	INDUCTOR-SMD;22UH,20%,4040	
L706	2703-002569	INDUCTOR-SMD;22UH,20%,4040	
L708	2703-002569	INDUCTOR-SMD;22UH,20%,4040	
L710	2703-002569	INDUCTOR-SMD;22UH,20%,4040	SCD352 Only
L714	2703-002569	INDUCTOR-SMD;22UH,20%,4040	
L715	2703-000397	INDUCTOR-SMD;33uH,10%,2520	
L716	2703-000397	INDUCTOR-SMD;33uH,10%,2520	
L717	2703-001865	INDUCTOR-SMD;33uH,20%,6060	
L719	2703-001865	INDUCTOR-SMD;33uH,20%,6060	
L721	2703-001863	INDUCTOR-SMD;6.8uH,20%,2520	
L722	2703-001863	INDUCTOR-SMD;6.8uH,20%,2520	
L723	2703-001863	INDUCTOR-SMD;6.8uH,20%,2520	
L724	2703-001863	INDUCTOR-SMD;6.8uH,20%,2520	
L725	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
L726	2703-001863	INDUCTOR-SMD;6.8uH,20%,2520	
L727	2703-001867	INDUCTOR-SMD;1uH,20%,2520	
L728	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
L729	2703-001863	INDUCTOR-SMD;6.8uH,20%,2520	
L730	2007-000029	R-CHIP;0ohm,5%,1/8W,TP,2012	
L733	2703-000375	INDUCTOR-SMD;82uH,5%,2520	
L734	2703-000397	INDUCTOR-SMD;33uH,10%,2520	
L735	2703-000397	INDUCTOR-SMD;33uH,10%,2520	
LA05	2703-001863	INDUCTOR-SMD;6.8uH,20%,2520	
LA07	2703-001863	INDUCTOR-SMD;6.8uH,20%,2520	
LP01	2703-001883	INDUCTOR-SMD;22uH,10%,2520	
LP02	2703-001883	INDUCTOR-SMD;22uH,10%,2520	
LP03	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
LP04	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
LP05	2703-002174	INDUCTOR-SMD;10uH,10%,2520	
LP06	2703-002174	INDUCTOR-SMD;10uH,10%,2520	

Loc.No	Part No	Description ; Specification	Remark
MD01	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	SCD351 Only
MD02	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	SCD352 Only
MD03	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	SCD353 Only
Q111	0501-002128	TR-SMALL SIGNAL;KTC4075,NPN,100mW,USM,TP	
Q112	0501-002128	TR-SMALL SIGNAL;KTC4075,NPN,100mW,USM,TP	
Q201	0501-000225	TR-SMALL SIGNAL;2SC4617,NPN,200mW,EM3,TP	
Q305	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-	
Q306	0504-001032	TR-DIGITAL;KRC404,NPN,100MW,47K/47K,SOT-	
Q401	0504-000167	TR-DIGITAL;RN1102,NPN,100mW,10K/10K,SSM,	
Q404	0504-000167	TR-DIGITAL;RN1102,NPN,100mW,10K/10K,SSM,	
Q405	0501-000172	TR-SMALL SIGNAL;2SB1121,PNP,500mW,PCP,TP	
Q501	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	
Q502	0501-000225	TR-SMALL SIGNAL;2SC4617,NPN,200mW,EM3,TP	
Q503	0504-000168	TR-DIGITAL;RN1104,NPN,100MW,47K/47K,SSM,	
Q504	0504-000168	TR-DIGITAL;RN1104,NPN,100MW,47K/47K,SSM,	
Q601	0504-001101	TR-DIGITAL;EMD2,NPN/PNP,150MW,22K/22K,EM	
Q602	0501-002373	TR-SMALL SIGNAL;EMX2,NPN,150MW,EMT6,TP,1	
Q603	0501-002373	TR-SMALL SIGNAL;EMX2,NPN,150MW,EMT6,TP,1	
Q701	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q702	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q703	0505-001646	FET-SILICON;MCH5803,N,30V,1.4A,370MOHM,0	
Q705	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	SCD352 Only
Q706	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q707	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q708	0505-001725	FET-SILICON;MCH5818,P,-12V,-1.5A,200MOHM	
Q709	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150mW,SC-88,TP,	
Q710	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150mW,SC-88,TP,	
Q711	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150mW,SC-88,TP,	
Q712	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150mW,SC-88,TP,	
Q713	0504-001101	TR-DIGITAL;EMD2,NPN/PNP,150MW,22K/22K,EM	
Q714	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	
Q715	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	
Q726	0504-001101	TR-DIGITAL;EMD2,NPN/PNP,150MW,22K/22K,EM	
Q727	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150mW,SC-88,TP,	
QP05	0504-001025	TR-DIGITAL;DTC143EE,NPN,150MW,4.7K,EMT3,	
R111	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	
R112	2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	
R113	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R115	2007-007132	R-CHIP;15Kohm,1%,1/16W,TP,1005	
R116	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	
R117	2007-007318	R-CHIP;1Kohm,1%,1/16W,TP,1005	
R119	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R120	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R125	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R126	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R127	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R129	2007-001313	R-CHIP;330OHM,5%,1/16W,TP,1005	
R130	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
R131	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R132	2007-000155	R-CHIP;27KOHM,5%,1/16W,TP,1005	
R133	2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	
R134	2007-000139	R-CHIP;220OHM,5%,1/16W,TP,1005	
R135	2007-007095	R-CHIP;390OHM,5%,1/16W,TP,1005	
R136	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R137	2007-000242	R-CHIP;1.5KOHM,5%,1/16W,TP,1005	
R138	2007-007095	R-CHIP;390OHM,5%,1/16W,TP,1005	
R139	2007-007095	R-CHIP;390OHM,5%,1/16W,TP,1005	
R200	2007-001341	R-CHIP;680KOHM,5%,1/16W,TP,1005	
R201	2007-000932	R-CHIP;470OHM,5%,1/16W,TP,1005	
R204	2007-007311	R-CHIP;22Kohm,1%,1/16W,TP,1005	
R205	2007-001333	R-CHIP;18KOHM,5%,1/16W,TP,1005	
R206	2007-001311	R-CHIP;270OHM,5%,1/16W,TP,1005	
R207	2007-001311	R-CHIP;270OHM,5%,1/16W,TP,1005	
R208	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R209	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R210	2007-000142	R-CHIP;2.7KOHM,5%,1/16W,TP,1005	

Loc.No	Part No	Description ; Specification	Remark
R2100	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R2104	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R2109	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R211	2007-000164	R-CHIP;150KOHM,5%,1/16W,TP,1005	
R2110	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R2111	2007-001313	R-CHIP;330OHM,5%,1/16W,TP,1005	
R2112	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R2113	2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	
R212	2007-001311	R-CHIP;270OHM,5%,1/16W,TP,1005	
R213	2007-000142	R-CHIP;2.7KOHM,5%,1/16W,TP,1005	
R214	2007-000164	R-CHIP;150KOHM,5%,1/16W,TP,1005	
R215	2007-001311	R-CHIP;270OHM,5%,1/16W,TP,1005	
R216	2007-000142	R-CHIP;2.7KOHM,5%,1/16W,TP,1005	
R217	2007-000164	R-CHIP;150KOHM,5%,1/16W,TP,1005	
R218	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R219	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R220	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R2200	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R2201	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R221	2007-000170	R-CHIP;1MOHM,5%,1/16W,TP,1005	
R222	2007-008391	R-CHIP;6.34KOHM,1%,1/16W,DA,TP,1005	
R223	2007-000170	R-CHIP;1MOHM,5%,1/16W,TP,1005	
R224	2007-008301	R-CHIP;56.2OHM,1%,1/16W,TP,1005	
R225	2007-008301	R-CHIP;56.2OHM,1%,1/16W,TP,1005	
R226	2007-008301	R-CHIP;56.2OHM,1%,1/16W,TP,1005	
R227	2007-008301	R-CHIP;56.2OHM,1%,1/16W,TP,1005	
R228	2007-008300	R-CHIP;5.11KOHM,1%,1/16W,TP,1005	
R233	2007-001306	R-CHIP;150OHM,5%,1/16W,TP,1005	
R234	2007-001306	R-CHIP;150OHM,5%,1/16W,TP,1005	
R235	2007-000139	R-CHIP;220OHM,5%,1/16W,TP,1005	
R236	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R237	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R241	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R242	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R243	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R244	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R245	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R246	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R247	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R248	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R249	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R250	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R251	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R252	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R253	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R254	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R255	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R256	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R257	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R258	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R259	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R260	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R261	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R262	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R263	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R264	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R269	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R270	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R271	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R274	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R283	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R284	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R285	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R286	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R287	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R288	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R289	2007-008391	R-CHIP;6.34KOHM,1%,1/16W,DA,TP,1005	
R290	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R291	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R292	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R293	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R295	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R296	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R297	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R298	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R301	2007-008015	R-CHIP;75ohm,1%,1/16W,DA,TP,1005	
R302	2007-008015	R-CHIP;75ohm,1%,1/16W,DA,TP,1005	
R303	2007-008015	R-CHIP;75ohm,1%,1/16W,DA,TP,1005	
R309	2007-001305	R-CHIP;120OHM,5%,1/16W,TP,1005	
R321	2007-000160	R-CHIP;68KOHM,5%,1/16W,TP,1005	SCD353/352 Only
R322	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	SCD353/352 Only
R323	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R324	2007-003029	R-CHIP;820KOHM,5%,1/16W,TP,1005	
R325	2007-001305	R-CHIP;120OHM,5%,1/16W,TP,1005	
R327	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	
R331	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R332	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R333	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R334	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R335	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R336	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R337	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R339	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R340	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R341	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R342	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R344	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R401	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R402	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R403	2007-001311	R-CHIP;270OHM,5%,1/16W,TP,1005	
R404	2007-002970	R-CHIP;56ohm,5%,1/16W,TP,1005	
R405	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R407	2007-001339	R-CHIP;180KOHM,5%,1/16W,TP,1005	
R413	2007-000160	R-CHIP;68KOHM,5%,1/16W,TP,1005	
R414	2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	
R415	2007-000152	R-CHIP;20KOHM,5%,1/16W,TP,1005	
R416	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R417	2007-000160	R-CHIP;68KOHM,5%,1/16W,TP,1005	
R418	2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	
R419	2007-000152	R-CHIP;20KOHM,5%,1/16W,TP,1005	
R420	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R422	2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	
R423	2007-000160	R-CHIP;68KOHM,5%,1/16W,TP,1005	
R424	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	
R425	2007-000155	R-CHIP;27KOHM,5%,1/16W,TP,1005	
R426	2007-000483	R-CHIP;1ohm,5%,1/8W,TP,2012	
R427	2007-000483	R-CHIP;1ohm,5%,1/8W,TP,2012	
R428	2007-000483	R-CHIP;1ohm,5%,1/8W,TP,2012	
R436	2007-000775	R-CHIP;33KOHM,5%,1/16W,TP,1005	
R437	2007-000775	R-CHIP;33KOHM,5%,1/16W,TP,1005	
R443	2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	
R444	2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	
R449	2007-000153	R-CHIP;22KOHM,5%,1/16W,TP,1005	
R450	2007-001341	R-CHIP;680KOHM,5%,1/16W,TP,1005	
R452	2007-000170	R-CHIP;1MOHM,5%,1/16W,TP,1005	
R453	2007-000153	R-CHIP;22KOHM,5%,1/16W,TP,1005	
R460	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R461	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R470	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R471	2007-007310	R-CHIP;8.2KOHM,1%,1/16W,TP,1005	
R472	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R474	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	

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Loc.No	Part No	Description ; Specification	Remark
R501	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R502	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R503	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R504	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R505	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R506	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R507	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R508	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R509	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R510	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5100	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5101	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5104	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5105	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5106	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5107	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R5108	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R5109	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R511	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5110	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R5111	2007-000170	R-CHIP;1MOHM,5%,1/16W,TP,1005	
R5112	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5113	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5116	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5117	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5118	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R512	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5121	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5122	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5123	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5124	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5125	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5126	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5127	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	
R5129	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R513	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5130	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5131	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5132	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5133	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5134	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R5135	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5136	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5137	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5139	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5140	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R5141	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5142	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	
R5143	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5144	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5145	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5146	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5147	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5148	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R5149	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R515	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5150	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5151	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5152	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R5153	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
R5155	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5156	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5157	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R516	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5165	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R517	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	

Loc.No	Part No	Description ; Specification	Remark
R5170	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R5172	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5173	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5174	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R518	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5180	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	
R5181	2007-008391	R-CHIP;6.34KOHM,1%,1/16W,DA,TP,1005	
R5182	2007-001319	R-CHIP;1.2KOHM,5%,1/16W,TP,1005	
R5183	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R5184	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5186	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R5187	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R519	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R520	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5200	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R521	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R522	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R526	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R527	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R528	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R529	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R530	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5302	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R5304	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R5309	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R531	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R532	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R536	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R537	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R538	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R539	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R540	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5401	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R5402	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R541	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R543	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R544	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R545	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R546	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R547	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R550	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5501	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R5502	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R5503	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R5504	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R5505	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R5506	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R551	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R552	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R553	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R554	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R555	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R556	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R557	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R558	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R559	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R5601	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R5602	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R561	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R562	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R564	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R565	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R566	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R567	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R568	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R569	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	

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Loc.No	Part No	Description ; Specification	Remark
R570	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R571	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R575	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
R576	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	
R577	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	
R584	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R585	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R586	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R587	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R588	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R589	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R591	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R592	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	
R593	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R594	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R595	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R596	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R597	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R598	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R599	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R601	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
R602	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
R603	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
R604	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
R605	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R606	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R607	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R608	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R609	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R610	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R611	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R612	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R615	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R616	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R617	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R618	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R619	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R620	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R621	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R622	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R624	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
R625	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	
R626	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
R628	2007-000146	R-CHIP;6.8KOHM,5%,1/16W,TP,1005	
R629	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
R630	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
R631	2007-000146	R-CHIP;6.8KOHM,5%,1/16W,TP,1005	
R633	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	
R634	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
R635	2007-000566	R-CHIP;220KOHM,5%,1/16W,TP,1005	
R636	2007-007588	R-CHIP;1.8KOHM,1%,1/16W,TP,1005	
R637	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R638	2007-007588	R-CHIP;1.8KOHM,1%,1/16W,TP,1005	
R640	2007-007588	R-CHIP;1.8KOHM,1%,1/16W,TP,1005	
R642	2007-007588	R-CHIP;1.8KOHM,1%,1/16W,TP,1005	
R643	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
R701	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R702	2007-000164	R-CHIP;150KOHM,5%,1/16W,TP,1005	
R703	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R705	2007-007309	R-CHIP;12Kohm,1%,1/16W,TP,1005	
R706	2007-007946	R-CHIP;470Kohm,1%,1/16W,TP,1005	
R707	2007-007946	R-CHIP;470Kohm,1%,1/16W,TP,1005	
R708	2007-000152	R-CHIP;20KOHM,5%,1/16W,TP,1005	
R709	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
R710	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R7100	2007-000152	R-CHIP;20KOHM,5%,1/16W,TP,1005	

Loc.No	Part No	Description ; Specification	Remark
R7101	2007-000153	R-CHIP;22KOHM,5%,1/16W,TP,1005	
R7102	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	
R7104	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R7106	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
R7107	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R711	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R716	2007-000982	R-CHIP;5.6KOHM,5%,1/16W,TP,1005	
R717	2007-000982	R-CHIP;5.6KOHM,5%,1/16W,TP,1005	
R718	2007-000982	R-CHIP;5.6KOHM,5%,1/16W,TP,1005	
R719	2007-000982	R-CHIP;5.6KOHM,5%,1/16W,TP,1005	
R720	2007-000982	R-CHIP;5.6KOHM,5%,1/16W,TP,1005	
R721	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R722	2007-008275	R-CHIP;30Kohm,1%,1/16W,TP,1005	
R723	2007-007470	R-CHIP;7.5Kohm,1%,1/16W,DA,TP,1005	
R724	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R725	2007-008275	R-CHIP;30Kohm,1%,1/16W,TP,1005	
R726	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	
R727	2007-000242	R-CHIP;1.5KOHM,5%,1/16W,TP,1005	
R728	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	
R729	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	
R730	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R731	2007-001333	R-CHIP;18KOHM,5%,1/16W,TP,1005	
R732	2007-007312	R-CHIP;20Kohm,1%,1/16W,TP,1005	
R733	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R734	2007-007132	R-CHIP;15Kohm,1%,1/16W,TP,1005	
R735	2007-007132	R-CHIP;15Kohm,1%,1/16W,TP,1005	
R736	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R746	2007-000982	R-CHIP;5.6KOHM,5%,1/16W,TP,1005	
R747	2007-000982	R-CHIP;5.6KOHM,5%,1/16W,TP,1005	
R748	2007-000982	R-CHIP;5.6KOHM,5%,1/16W,TP,1005	
R749	2007-001333	R-CHIP;18KOHM,5%,1/16W,TP,1005	
R750	2007-007470	R-CHIP;7.5Kohm,1%,1/16W,DA,TP,1005	
R751	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R752	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	
R753	2007-007311	R-CHIP;22Kohm,1%,1/16W,TP,1005	
R754	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R755	2007-007470	R-CHIP;7.5Kohm,1%,1/16W,DA,TP,1005	
R756	2007-008275	R-CHIP;30Kohm,1%,1/16W,TP,1005	
R757	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R773	2007-000153	R-CHIP;22KOHM,5%,1/16W,TP,1005	
R774	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	
R775	2007-000153	R-CHIP;22KOHM,5%,1/16W,TP,1005	
R776	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	
R777	2007-000153	R-CHIP;22KOHM,5%,1/16W,TP,1005	
R778	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	
R779	2007-000153	R-CHIP;22KOHM,5%,1/16W,TP,1005	
R780	2007-001325	R-CHIP;3.3Kohm,5%,1/16W,TP,1005	
R781	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R795	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R796	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
R797	2007-007313	R-CHIP;6.8KOHM,1%,1/16W,TP,1005	
R798	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	
R799	2007-000151	R-CHIP;15KOHM,5%,1/16W,TP,1005	
RA50	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
RA51	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	
RA52	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	
RA53	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
RA56	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA561	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA566	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA570	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA572	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA577	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA579	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA580	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA581	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	

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Loc.No	Part No	Description ; Specification	Remark
RA588	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA589	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA595	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA596	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA96	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA98	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RA99	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM01	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
RM02	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
RM03	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
RM04	2007-003112	R-CHIP;27OHM,5%,1/16W,TP,1005	
RM05	2007-003112	R-CHIP;27OHM,5%,1/16W,TP,1005	
RM06	2007-003112	R-CHIP;27OHM,5%,1/16W,TP,1005	
RM09	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	
RM10	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
RM100	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RM101	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RM102	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	
RM11	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
RM112	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM113	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM12	2007-000174	R-CHIP;47ohm,5%,1/16W,TP,1005	
RM16	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM17	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RM19	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RM22	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM24	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM26	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM28	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM288	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM29	2007-007313	R-CHIP;6.8KOHM,1%,1/16W,TP,1005	
RM30	2007-007313	R-CHIP;6.8KOHM,1%,1/16W,TP,1005	
RM301	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM302	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM303	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
RM304	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
RM31	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM34	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM35	2007-000139	R-CHIP;220OHM,5%,1/16W,TP,1005	
RM37	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM39	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM44	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM46	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM48	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RM50	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM52	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RM53	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RM530	2007-000172	R-CHIP;10ohm,5%,1/16W,TP,1005	
RM59	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
RM60	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
RM61	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
RM62	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
RM63	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
RM660	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM76	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RM78	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM79	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM810	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM811	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM812	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM813	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM814	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM815	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM816	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM817	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM818	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM819	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM82	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RM820	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM821	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RM92	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RM95	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RP01	2007-000083	R-CHIP;3Kohm,5%,1/10W,TP,1608	
RP02	2007-000141	R-CHIP;2.2Kohm,5%,1/16W,TP,1005	
RP05	2007-000153	R-CHIP;22KOHM,5%,1/16W,TP,1005	
RP06	2007-000636	R-CHIP;270KOHM,5%,1/16W,TP,1005	
RP08	2007-000153	R-CHIP;22KOHM,5%,1/16W,TP,1005	
RP09	2007-000156	R-CHIP;30Kohm,5%,1/16W,TP,1005	
RP10	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RP11	2007-000164	R-CHIP;150KOHM,5%,1/16W,TP,1005	
RP12	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
RP13	2007-000139	R-CHIP;220OHM,5%,1/16W,TP,1005	
RP15	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
RP16	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RP160	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RP161	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RP162	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RP163	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RP17	2007-000164	R-CHIP;150KOHM,5%,1/16W,TP,1005	
RP18	2007-007001	R-CHIP;3.9KOHM,5%,1/16W,TP,1005	
RP19	2007-007001	R-CHIP;3.9KOHM,5%,1/16W,TP,1005	
RP20	2007-000775	R-CHIP;33KOHM,5%,1/16W,TP,1005	
RP200	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
RP202	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	
RP21	2007-000153	R-CHIP;22KOHM,5%,1/16W,TP,1005	
RP25	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	
RP30	2007-001307	R-CHIP;180OHM,5%,1/16W,TP,1005	
RP301	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RP302	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RP303	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RP304	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RP31	2007-001307	R-CHIP;180OHM,5%,1/16W,TP,1005	
RP32	2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	
RP33	2007-000159	R-CHIP;56Kohm,5%,1/16W,TP,1005	
RP34	2007-000775	R-CHIP;33KOHM,5%,1/16W,TP,1005	
RP36	2007-000164	R-CHIP;150KOHM,5%,1/16W,TP,1005	
RP37	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
RP38	2007-000148	R-CHIP;10Kohm,5%,1/16W,TP,1005	
X201	2801-003703	CRYSTAL-SMD;24.576MHz,50ppm,28-ACl,12pF,	
X202	2801-003424	CRYSTAL-SMD;41.85MHZ,50ppm,28-ACC,12pF,-	
X501	2801-004311	CRYSTAL-SMD;13.5MHz,50ppm,28-ABV,10pF,60	
X502	2801-003856	CRYSTAL-SMD;0.032768MHz,20ppm,28-ACP,7pF	
XM01	2804-001309	OSCILLATOR-CLOCK;54MHZ,20PPM,10TTL & CMO	
XM02	2801-003827	CRYSTAL-SMD;48MHZ,30PPM,28-ACl,7PF,150OH	
C314	**AD97-09534A**	**ASSY-CCD;-,DELTA3,CCD, NT**	
CC02	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,TP,1608	
CC03	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,TP,1608	
CC04	2203-000491	C-CER,CHIP;2.2nF,10%,50V,X7R,TP,1608,-	
CC05	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,TP,1608	
CNC01	3710-001106	CONNECTOR-SOCKET;40P,2R,0.8mm,SMD-S,SN	
CNC02	3708-001687	CONNECTOR-FPC/FFC/PIC;27P,0.3MM,SMD-A,SN	
DC01	0401-001054	DIODE-SWITCHING;KDS160,80V,100MA,SOD-323	
QC01	0505-000180	FET-SILICON;2SK1070,N,-,50mA,-,150mW,SOT	
RC01	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	
RC02	2007-000079	R-CHIP;1.8Kohm,5%,1/10W,TP,1608	
RC03	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
P006	**AD97-09525F**	**ASSY-JACK BOARD;DRAGON-PJ,USB,JACK BOARD**	**SCD353 Only**
	AD97-09525E	**ASSY-JACK BOARD;DRAGON-PJ,USB, LED, NITE**	**SCD352 Only**
	AD97-09525B	**ASSY-JACK BOARD;DRAGON-PJ,ALL(X),JACK BO**	**SCD351 Only**
CJ02	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,TP,1608,-	
CJ03	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,TP,1608,-	
CNJ01	3708-001472	CONNECTOR-FPC/FFC/PIC;36P,0.5mm,SMD-A,SN	
CNJ02	3711-000922	CONNECTOR-HEADER;BOX,4P,1R,1.25mm,SMD-A,	
H255	3809-001653	FFC CABLE-FLAT;30V,80,50mm,36P,0.5mm,UL2	
IRLJ01	0601-001885	LED-IR;ROUND,5mm,150mW,5V,850nm,BK	SCD352 Only
IRLJ02	0601-001885	LED-IR;ROUND,5mm,150mW,5V,850nm,BK	SCD352 Only
JNJ01	3722-001202	JACK-PHONE;7P,3.6PI,AG,YEL,NO	SCD353/352 Only
JNJ02	3722-001435	JACK-PHONE;4P,3.6PI,AG,RED,-	
JNJ04	AD97-04290A	ASSY-S-JACK;4P,D5-PJ,DUSE-0126	
JNJ05	3722-002003	JACK-IEEE1394;4P/1C,TIN,WHT,ANGLE,IEEE13	
JNJ06	3722-001741	JACK-MINI USB;5P/1C,AU30U,BLK,SMD-A,-	
LEDJ01	0601-001973	LED;SMD,WHT,6.5X6.0X5.5MM,-,6.5X6.	SCD352 Only
LJ01	2703-001867	INDUCTOR-SMD;1uH,20%,2520	
LJ02	2703-001867	INDUCTOR-SMD;1uH,20%,2520	
LJ03	2703-001867	INDUCTOR-SMD;1uH,20%,2520	
QJ01	0501-000546	TR-SMALL SIGNAL;KSA1298,PNP,200mW,SOT-23	SCD352 Only
QJ02	0504-001037	TR-DIGITAL;KRC401,NPN,100MW,4.7K/4.7K,SO	SCD352 Only
QJ03	0504-000168	TR-DIGITAL;RN1104,NPN,100MW,47K/47K,SSM,	
RJ03	2007-000130	R-CHIP;39Kohm,5%,1/10W,TP,1608	
RJ04	2007-000097	R-CHIP;47Kohm,5%,1/10W,TP,1608	
RJ06	2007-000660	R-CHIP;27ohm,5%,1/4W,TP,3216	SCD352 Only
RJ07	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	SCD352 Only
RJ08	2007-000087	R-CHIP;6.8Kohm,5%,1/10W,TP,1608	SCD352 Only
RJ09	2007-000660	R-CHIP;27ohm,5%,1/4W,TP,3216	SCD352 Only
P008	**AD97-09527A**	**ASSY-TOP BOARD;DRAGON-PJ,SC-D353,TOP BOA**	
CNT01	3708-001148	CONNECTOR-FPC/FFC/PIC;6P,0.5MM,SMD-A,SN,	
CT01	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
CT02	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
RT01	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	
RT02	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	
RT03	2007-000651	R-CHIP;27Kohm,1%,1/10W,TP,1608	
SWT01	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWT03	3404-001034	SWITCH-TACT;12V,50mA,160gf,4x7.4x1.8mm,S	
VRT01	2102-001019	VR-SLIDE;10Kohm,30%,1/20W,SLIDE	
P003	**AD97-09524C**	**ASSY-LEFT BOARD;DRAGON-PJ,M/S, EVF,LEFT**	**SCD353 Only**
	AD97-09524B	**ASSY-LEFT BOARD;DRAGON-PJ,NO SIot, EVF,L**	**SCD352/351 Only**
CLF01	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
CLF02	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	SCD353 Only
CLF05	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
CLF06	2203-005148	C-CER,CHIP;100nF,10%,16V,X7R,TP,1608	
CLF11	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CLF12	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CNLF01	3708-001813	CONNECTOR-FPC/FFC/PIC;45P,0.5MM,SMD-A,SN	
CNLF02	3708-000363	CONNECTOR-FPC/FFC/PIC;20P,0.5MM,SMD-A,SN	SCD353 Only
CNLF03	3708-001112	CONNECTOR-FPC/FFC/PIC;26P,0.5MM,SMD-A,SN	
CNLF04	3708-001649	CONNECTOR-FPC/FFC/PIC;16P,0.5MM,SMD-A-ZI	
CNLF05	3711-000541	CONNECTOR-HEADER;BOX,2P,1R,1.25MM,SMD-A,	
CNLF07	3711-000541	CONNECTOR-HEADER;BOX,2P,1R,1.25MM,SMD-A,	
H255	3809-001537	FFC CABLE-FLAT;30V,80C,70mm,45P,0.5mm,UL	
H255	3809-001540	FFC CABLE-FLAT;30V,80C,50mm,20P,0.5mm,UL	
LLF01	2703-000396	INDUCTOR-SMD;10uH,10%,2520	SCD353 Only
QLF02	0501-000552	TR-SMALL SIGNAL;2SA1774-Q,PNP,150mW,EM3,	
QLF03	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150mW,SC-88,TP,	SCD353 Only
RLF01	2007-000651	R-CHIP;27Kohm,1%,1/10W,TP,1608	
RLF02	2007-000828	R-CHIP;39Kohm,1%,1/10W,TP,1608	
RLF03	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	SCD353 Only
RLF04	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	SCD353 Only
RLF05	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	SCD353 Only
RLF06	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	SCD353 Only
RLF08	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
RLF14	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
RLF15	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	
RLF16	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
RLF17	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	SCD353 Only
RLF18	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	SCD353 Only
RLF19	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	SCD353 Only
RLF20	2007-000402	R-CHIP;150ohm,5%,1/10W,TP,1608	SCD353 Only
RLF30	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	SCD353 Only
RLF31	2007-001010	R-CHIP;51Kohm,5%,1/10W,TP,1608	SCD353 Only
RLF32	2007-001010	R-CHIP;51Kohm,5%,1/10W,TP,1608	SCD353 Only
RLF33	2007-001010	R-CHIP;51Kohm,5%,1/10W,TP,1608	SCD353 Only
RLF34	2007-001010	R-CHIP;51Kohm,5%,1/10W,TP,1608	SCD353 Only
RLF35	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	
RLF36	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
RLF38	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	SCD353 Only
RLF40	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	SCD353 Only
RLF41	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	SCD353 Only
RLF51	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
RLF54	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
RLF57	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
RLF58	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	
RLF59	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	
RLF60	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	
SOLF01	3709-001214	CONNECTOR-CARD EDGE;10P,1.5mm,SMD-A,AUF	SCD353 Only
SWLF01	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWLF02	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWLF03	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWLF04	3403-001084	SWITCH-PUSH;DC5V,1 MA,-,ON-OFF,-	
SWLF05	3409-001035	SWITCH-DETECTOR;3~5V,50uA~10mA,2,30gf,LE	SCD353 Only
P004	**AD97-09526A**	**ASSY-FUNCTION BOARD;DRAGON-PJ,VP-D353,FU**	
CF01	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
CNF01	3711-000541	CONNECTOR-HEADER;BOX,2P,1R,1.25MM,SMD-A,	
RF01	2007-000651	R-CHIP;27Kohm,1%,1/10W,TP,1608	
RF02	2007-000828	R-CHIP;39Kohm,1%,1/10W,TP,1608	
RF03	2007-001206	R-CHIP;82Kohm,1%,1/10W,TP,1608	
RF04	2007-000633	R-CHIP;270Kohm,1%,1/10W,TP,1608	
SWF01	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWF02	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWF03	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWF04	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWF05	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
L052	**AD97-09686A**	**ASSY-EVF BOARD(NTSC);-,DRAGON-PJ,EVF BOA**	
CE01	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CE02	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CE03	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CE04	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CE06	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CE07	2203-005509	C-CER,CHIP;330nF,+80-20%,10V,Y5V,TP,1005	
CE08	2203-005509	C-CER,CHIP;330nF,+80-20%,10V,Y5V,TP,1005	
CE09	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CE10	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CE11	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CE12	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
CE13	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CE14	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
CE15	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	

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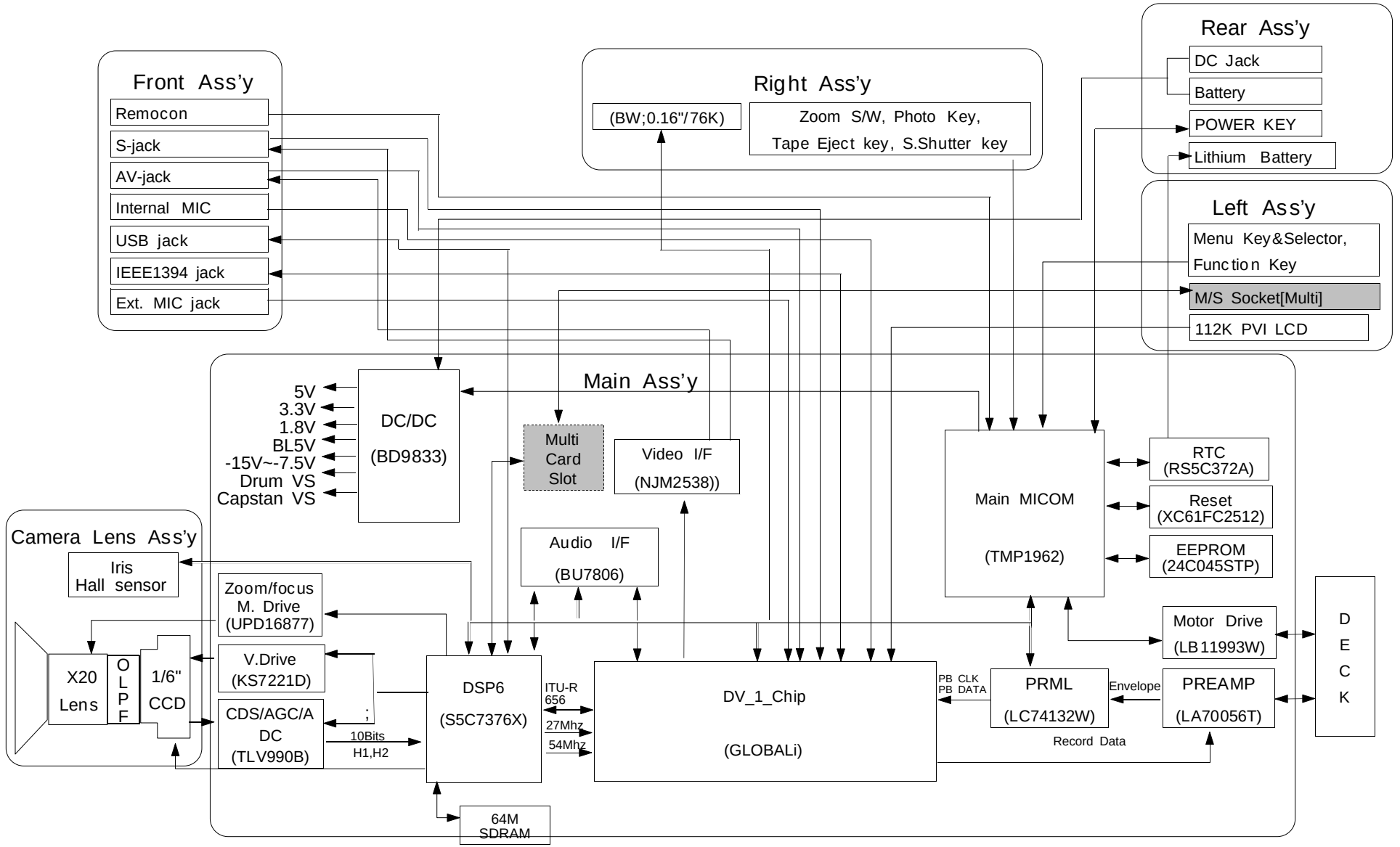
Loc.No	Part No	Description ; Specification	Remark
CE16	2203-005061	C-CER,CHIP;100nF,+80-20%,16V,Y5V,-,1005	
CE17	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
CNE01	3708-001680	CONNECTOR-FPC/FFC/PIC;6P,0.5MM,SMD-A,SN,	
CNE02	3708-001914	CONNECTOR-FPC/FFC/PIC;15P,0.5mm,SMD-S,SN	
DE01	0404-000110	DIODE-SCHOTTKY;RB411D,20V,500MA,SOT-23,T	
ICE01	1003-001805	IC-LCD DRIVER;KCD-QK05-DC,LQFP,48P,276MI	
LE01	2703-000397	INDUCTOR-SMD;33uH,10%,2520	
LE02	2703-000397	INDUCTOR-SMD;33uH,10%,2520	
LE03	2703-000397	INDUCTOR-SMD;33uH,10%,2520	
LED01	0601-001586	LED;SMD,WHT,-,470NM,3.2X2X1.2MM	
QE01	0501-000225	TR-SMALL SIGNAL;2SC4617,NPN,200mW,EM3,TP	
RE01	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	
RE02	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
RE04	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RE06	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RE08	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RE10	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	
RE11	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	
RE19	2007-007001	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1005	
RE20	2007-007001	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1005	
RE22	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	
RE23	2007-007589	R-CHIP;68KOHM,1%,1/16W,TP,1005	
RE24	2007-000775	R-CHIP;33Kohm,5%,1/16W,DA,TP,1005	
RE25	2007-002797	R-CHIP;560ohm,5%,1/16W,DA,TP,1005	
RE26	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
RE27	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
VRE01	2104-001007	VR-SMD;10Kohm,25%,0.15W,TOP	
L004	**AD97-09599A**	**ASSY-LCD BOARD;DRAGON-PJ,DIGITAL,LCD BOA**	
BD01	3301-001649	BEAD-SMD;180ohm,1.6x0.8mm,1500mA,TP,FER	
BD02	3301-001649	BEAD-SMD;180ohm,1.6x0.8mm,1500mA,TP,FER	
BD03	3301-001649	BEAD-SMD;180ohm,1.6x0.8mm,1500mA,TP,FER	
BD04	3301-001649	BEAD-SMD;180ohm,1.6x0.8mm,1500mA,TP,FER	
BD05	3301-001649	BEAD-SMD;180ohm,1.6x0.8mm,1500mA,TP,FER	
BD06	3301-001649	BEAD-SMD;180ohm,1.6x0.8mm,1500mA,TP,FER	
CL01	2404-001020	C-TA,CHIP;10uF,20%,10V,GP,TP,3216	
CL02	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,TP,1608	
CL03	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL04	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL05	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL06	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL07	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL08	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL09	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL10	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL11	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL12	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL13	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL14	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL15	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL16	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL17	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL18	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL19	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL20	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,-,1608	
CL21	2203-002793	C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012	
CNL01	3708-001341	CONNECTOR-FPC/FFC/PIC;26P,0.5MM,SMD-A,SN	
CNL02	3708-001331	CONNECTOR-FPC/FFC/PIC;40P,0.5MM,SMD-A,SN	
CNL03	3708-001148	CONNECTOR-FPC/FFC/PIC;6P,0.5MM,SMD-A,SN,	
LL01	2703-000396	INDUCTOR-SMD;10uH,10%,2520	
LL02	2703-000396	INDUCTOR-SMD;10uH,10%,2520	
QL101	0506-001066	TR-ARRAY;UMF5,NPN/PNP,2,150mW,SC-88,TP,	
RL01	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	
RL06	2007-000450	R-CHIP;180ohm,5%,1/10W,TP,1608	

Loc.No	Part No	Description ; Specification	Remark
RL07	2007-000098	R-CHIP;56Kohm,5%,1/10W,TP,1608	
RL08	2007-000106	R-CHIP;220Kohm,5%,1/10W,TP,1608	
RL09	2007-000094	R-CHIP;22Kohm,5%,1/10W,TP,1608	
RL10	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	
P009	**AD97-09529A**	**ASSY-REAR BOARD;DRAGON-PJ,SC-D353,REAR B**	
BTR1	AD65-00030A	TERMINAL-SPRING;DRAGON-PJ,BE(CU),-,-,T0.	
BTR2	AD65-00030A	TERMINAL-SPRING;DRAGON-PJ,BE(CU),-,-,T0.	
CNR01	3710-001106	CONNECTOR-SOCKET;40P,2R,0.8mm,SMD-S,SN	
CNR02	3710-001478	CONNECTOR-SOCKET;18P,2R,1MM,SMD-S,SN	
CNR03	3708-001148	CONNECTOR-FPC/FFC/PIC;6P,0.5MM,SMD-A,SN,	
CR01	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
CR02	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,TP,1608	
CR03	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,TP,1608	
CR10	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,TP,1608	
FER01	0505-001726	FET-SILICON;ECH8603,P,-20V,-4A,37MOHM,1.	
H263	3809-001556	CABLE-FLAT;30V,80C,55mm,6P,0.5mm,AWM2069	
ICR01	1201-001376	IC-OP AMP;75W01,SSOP,8P,110MIL,DUAL,-,PL	
JR01	AD97-08499A	ASSY-DC JACK;TC18-430-01,W8-PJ,STRAIGHT	
LBTR1	AD65-00025A	TERMINAL-LITHUM PLATE +;THETA2-PJ,BE-CU,	
LBTR2	AD63-00075A	TERMINAL—LI BATT(-);M1-PJ,C5210R-H,T0.2	
LDR01	0601-001006	LED;SMD,Y-GRN,1.3X2.9MM,570NM,2.4X	
QR01	0504-001102	TR-DIGITAL;EMD3,NPN/PNP,150MW,10K/10K,EM	
QR02	0504-000168	TR-DIGITAL;RN1104,NPN,100MW,47K/47K,SSM,	
QR03	0504-000168	TR-DIGITAL;RN1104,NPN,100MW,47K/47K,SSM,	
QR04	0501-000172	TR-SMALL SIGNAL;2SB1121,PNP,500mW,PCP,TP	
QR05	0501-000172	TR-SMALL SIGNAL;2SB1121,PNP,500mW,PCP,TP	
RR01	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	
RR02	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	
RR03	2007-008596	R-CHIP;0.1ohm,1%,1/4W,TP,3216	
RR04	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	
RR05	2007-000067	R-CHIP;15Kohm,1%,1/10W,TP,1608	
RR07	2007-000651	R-CHIP;27Kohm,1%,1/10W,TP,1608	
RR09	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	
RR10	2007-000923	R-CHIP;470Kohm,1%,1/10W,TP,1608	
RR11	2007-000563	R-CHIP;220Kohm,1%,1/10W,TP,1608	
RR12	2007-001198	R-CHIP;820ohm,1%,1/8W,TP,2012	
RR13	2007-001198	R-CHIP;820ohm,1%,1/8W,TP,2012	
RR14	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	
RR30	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	
RR31	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	
RR32	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	
RR33	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	
RR34	2007-000076	R-CHIP;330ohm,5%,1/10W,TP,1608	
SWR01	3409-001150	SWITCH-DETECTOR;12V,100MA,SPST,35GF,PUSH	
SWR02	3404-001171	SWITCH-TACT;12V DC,50MA,200GF,6.6X6X5MM,	
SWR03	3404-000119	SWITCH-TACT;12V,50mA,100gf,5.2x5.2x0.8mm	
SWR05	3404-001034	SWITCH-TACT;12V,50mA,160gf,4x7.4x1.8mm,S	
SWR08	3409-001150	SWITCH-DETECTOR;12V,100MA,SPST,35GF,PUSH	
VVR01	3408-001070	SWITCH-SLIDE;5V DC,10mA,-,OFF-<ON>,-	

7. Block Diagrams

7-1 All Block Diagram



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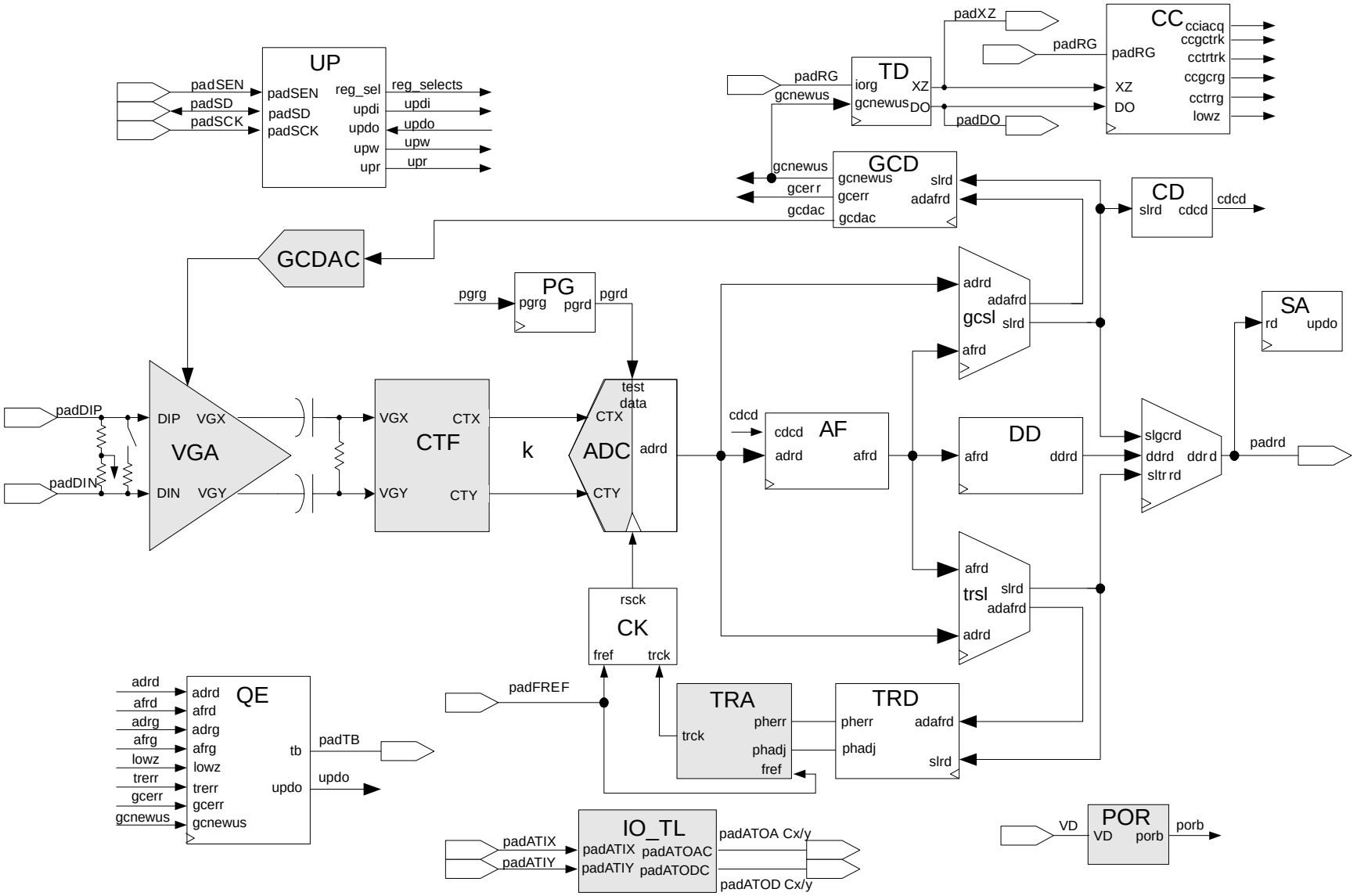
7-2 IC101 Block Diagram



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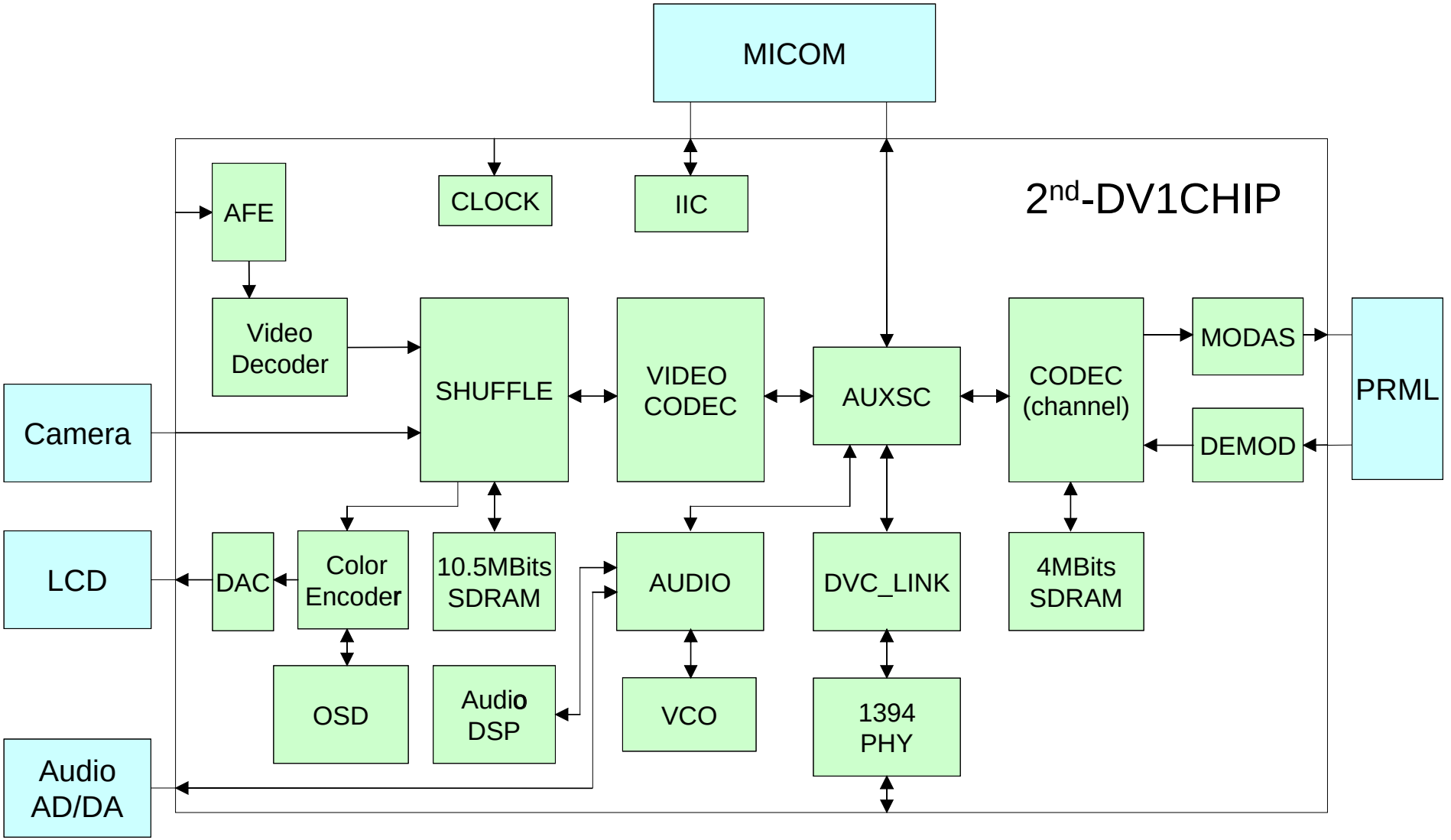
7-3 IC201 Block Diagram



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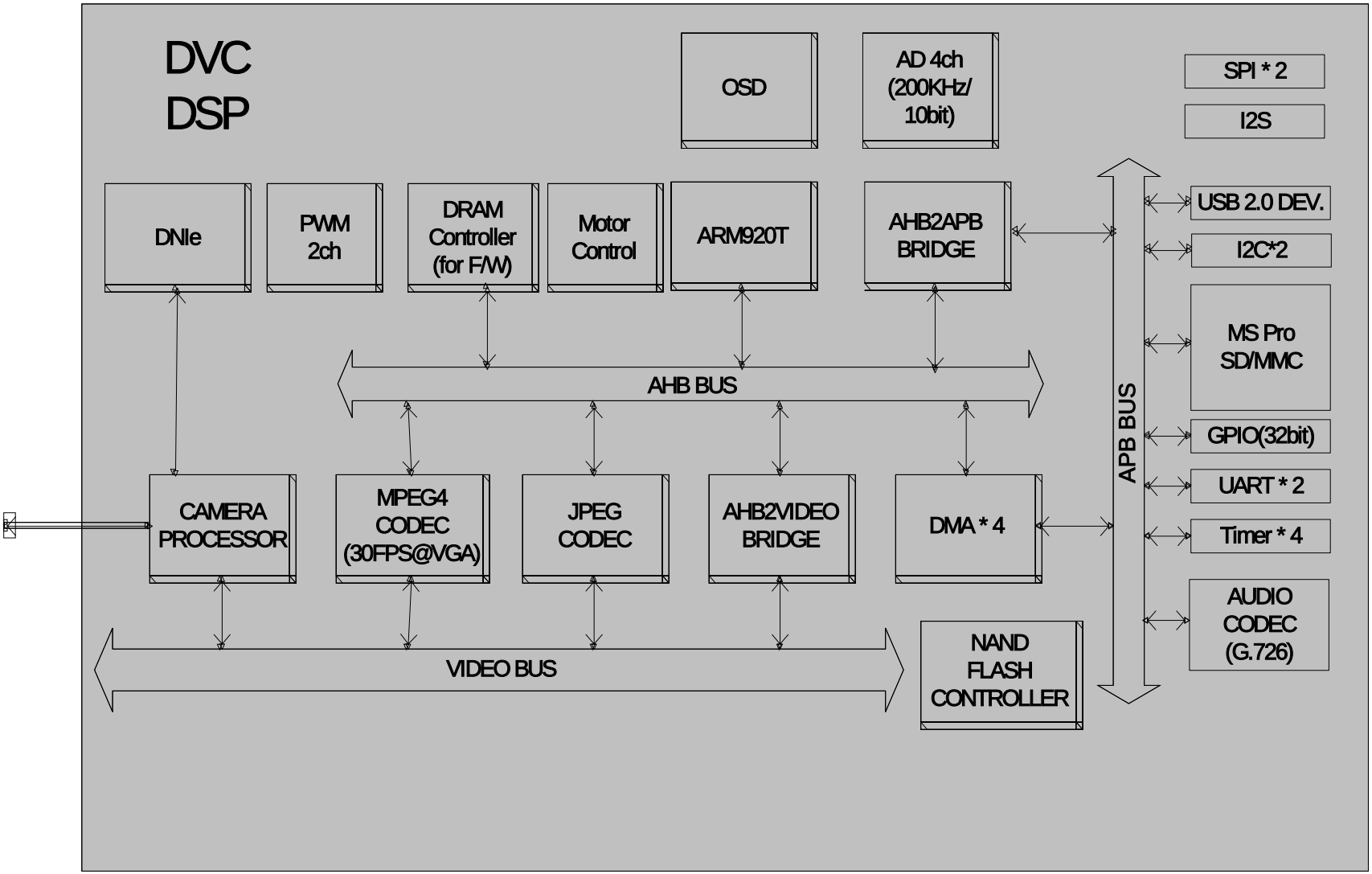
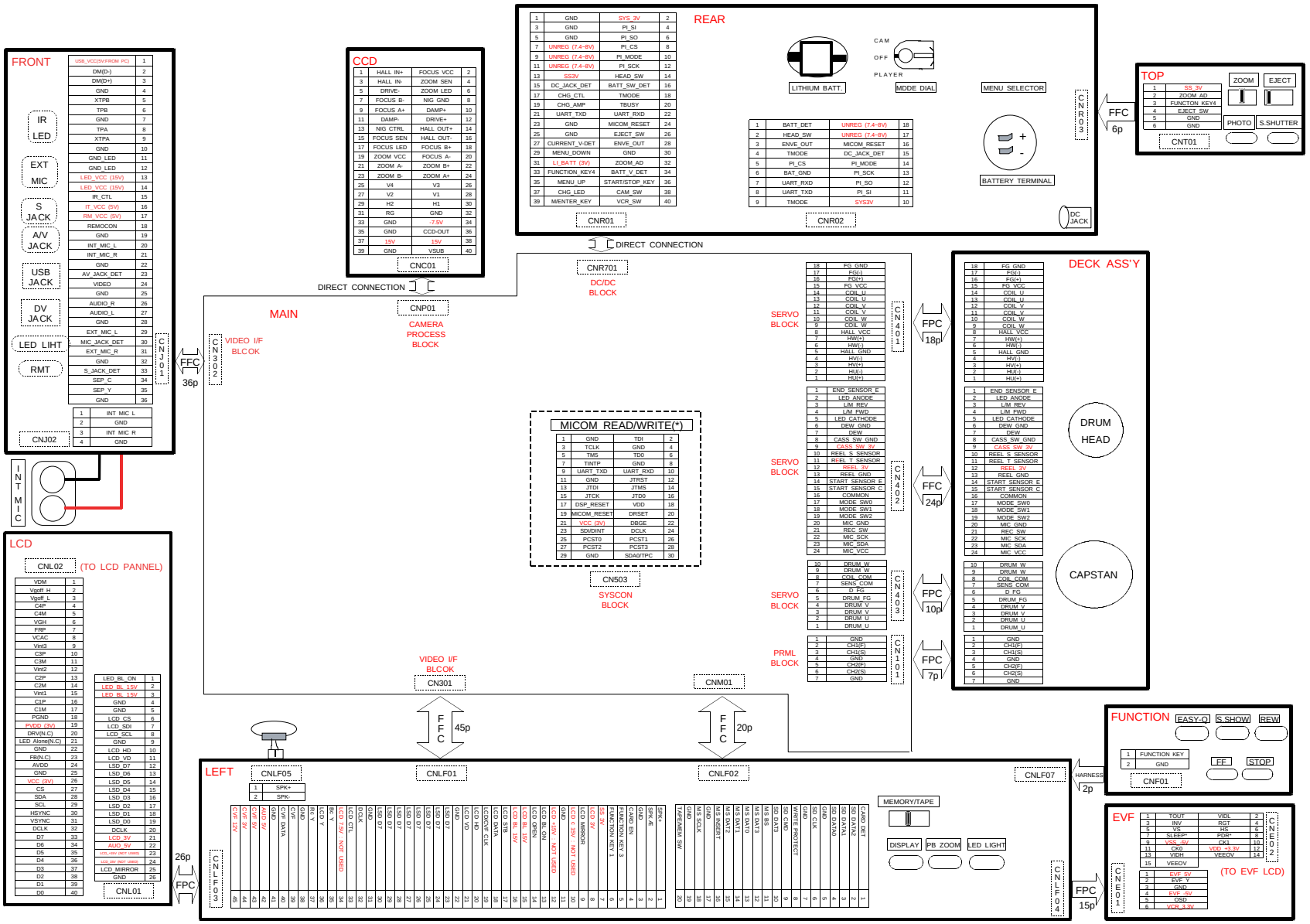
7-4 ICM01 Block Diagram



8. Wiring Diagram



10. Schematic Diagrams

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Note

For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

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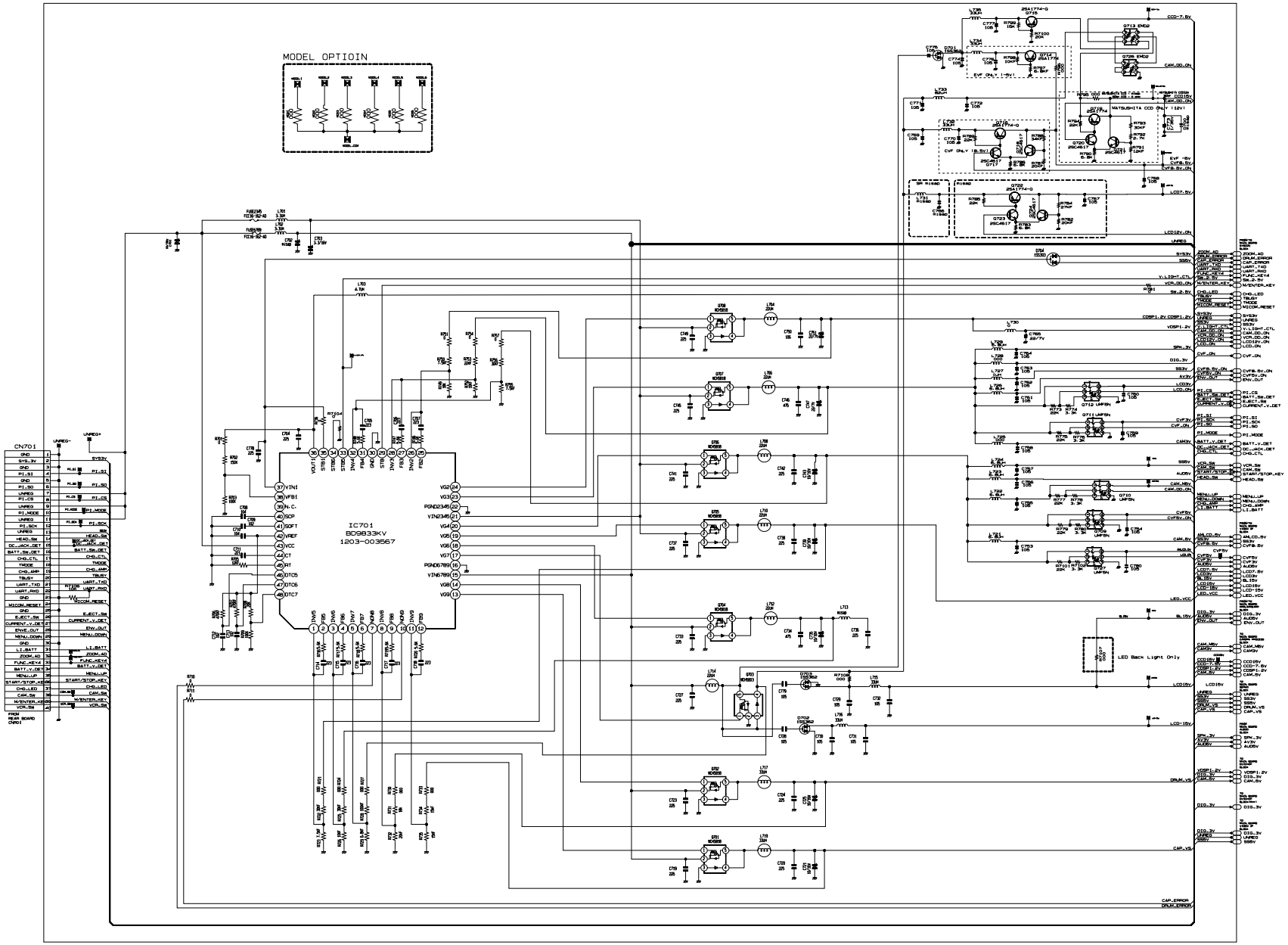
10-1 DC/DC Converter (Main PCB)



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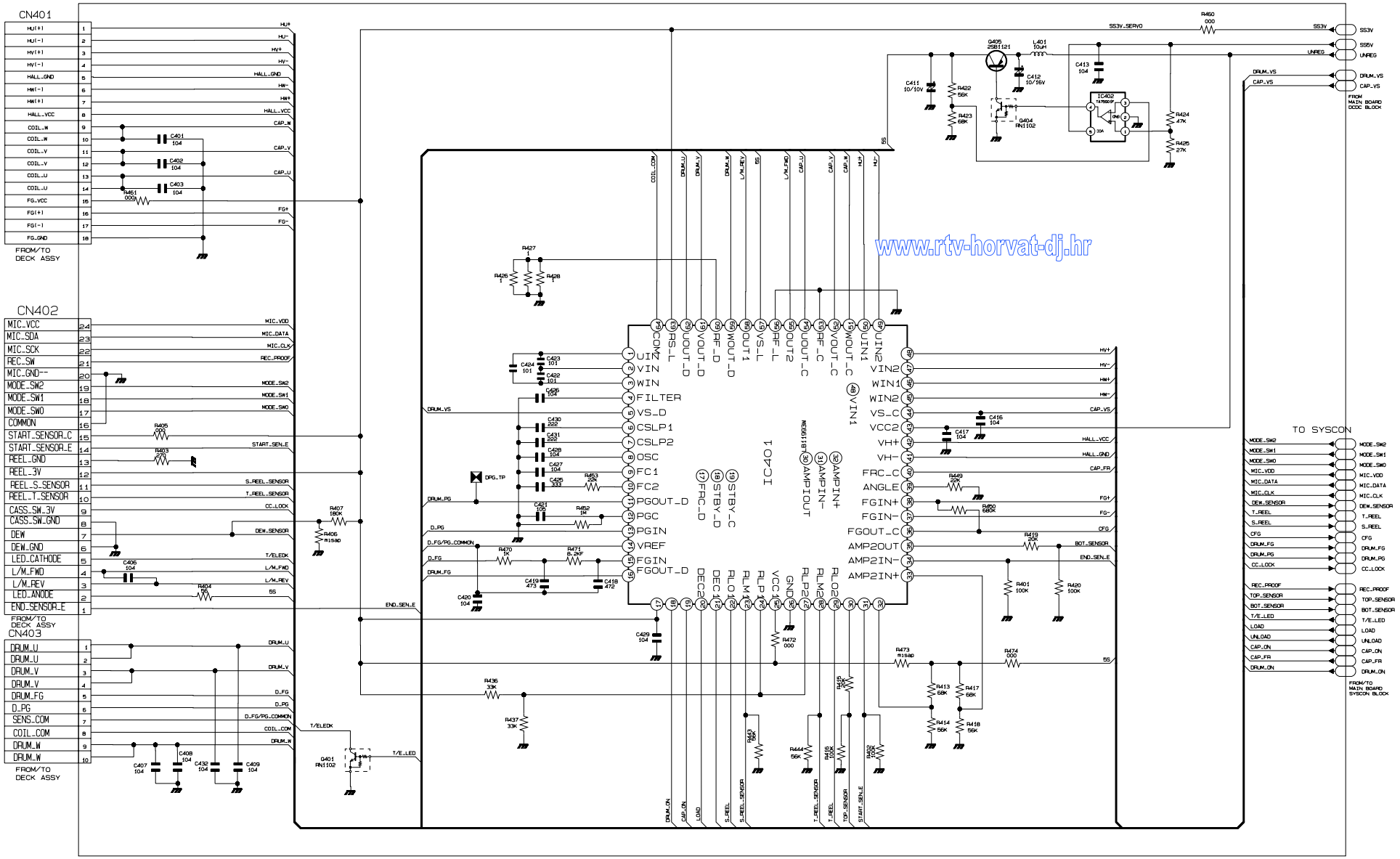
10-2 Servo (Main PCB)



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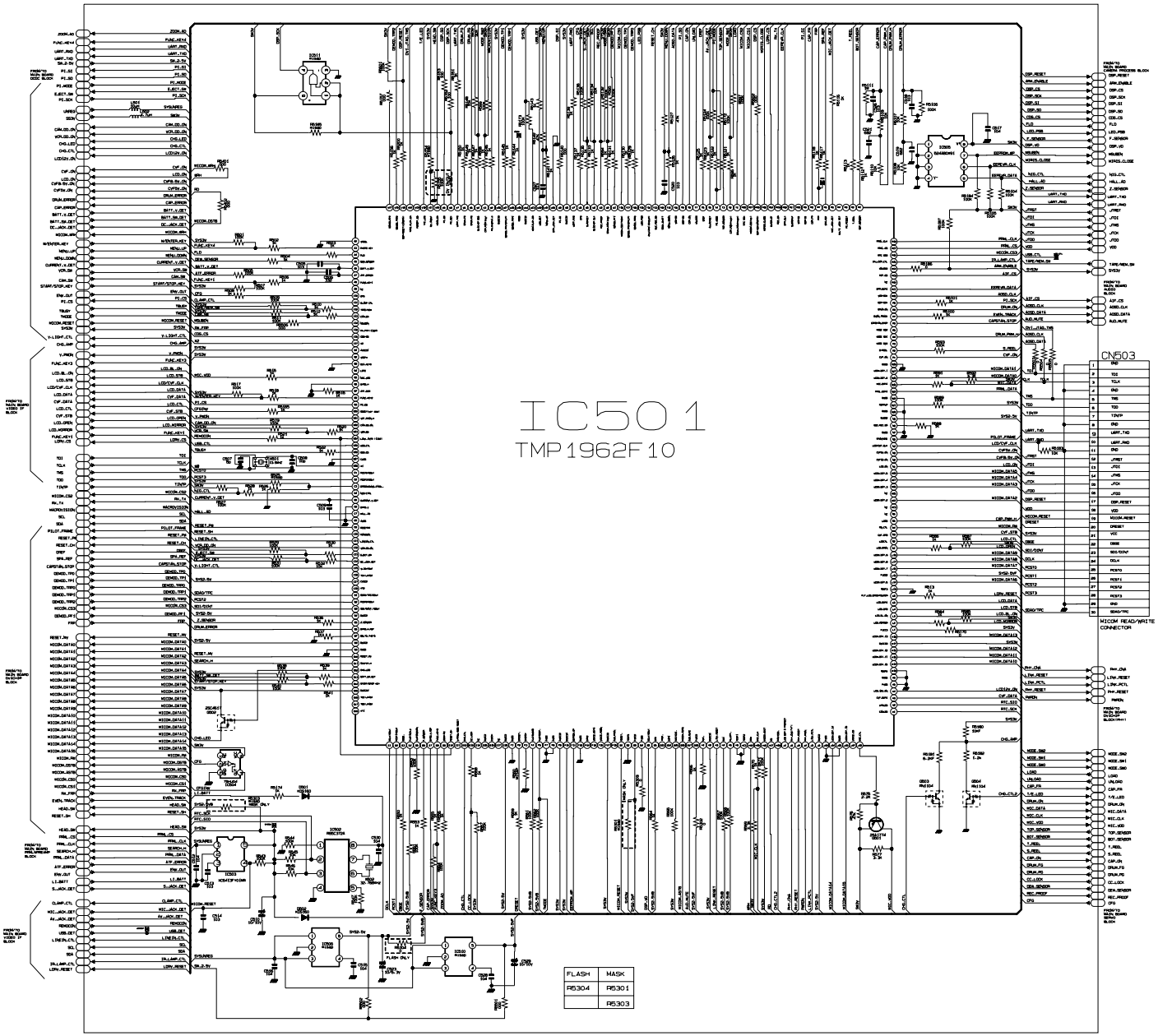
10-3 System Control (Main PCB)



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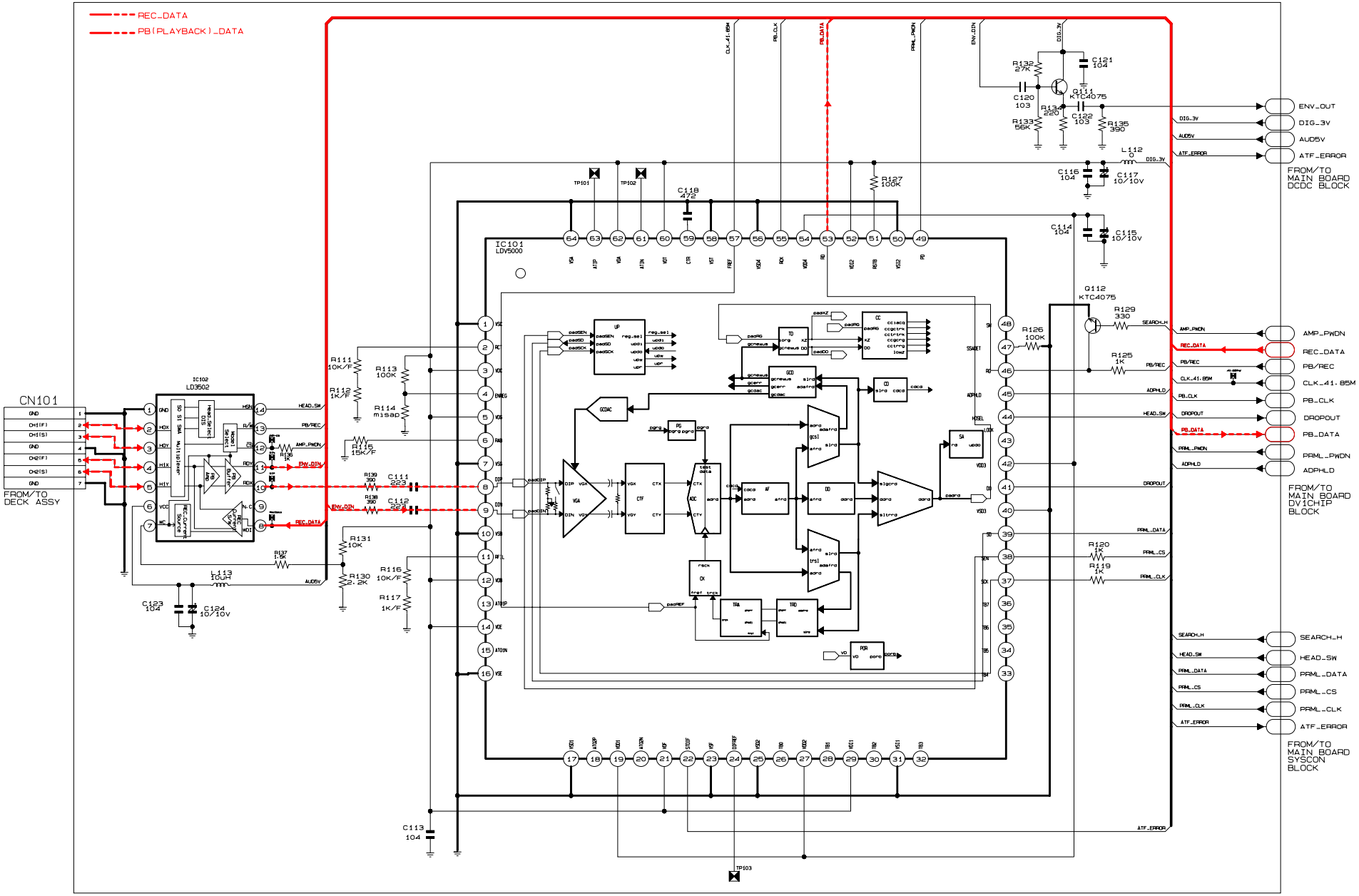
10-4 Pre Amp/PRML (Main PCB)



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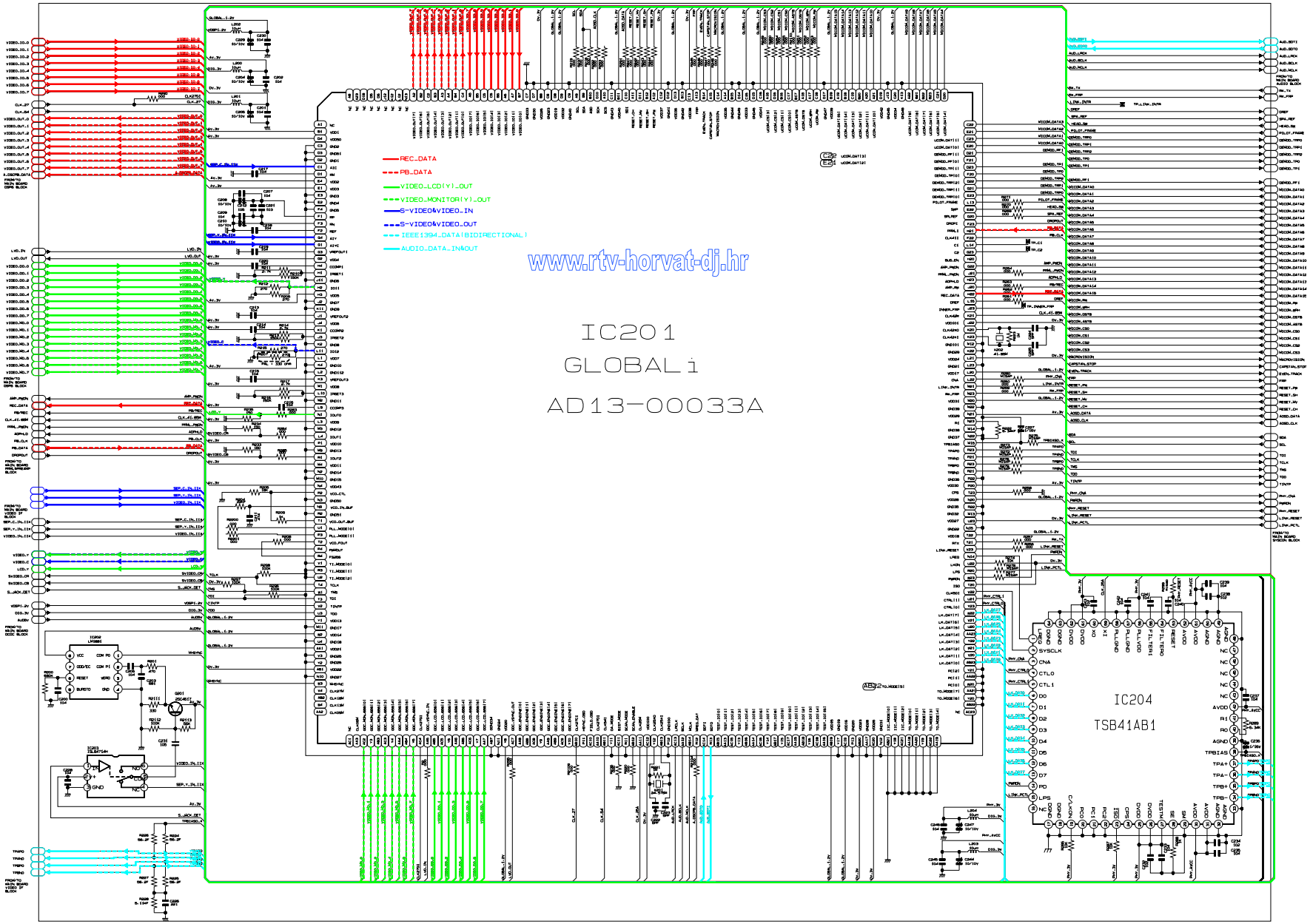
10-5 DV-1Chip (Main PCB)



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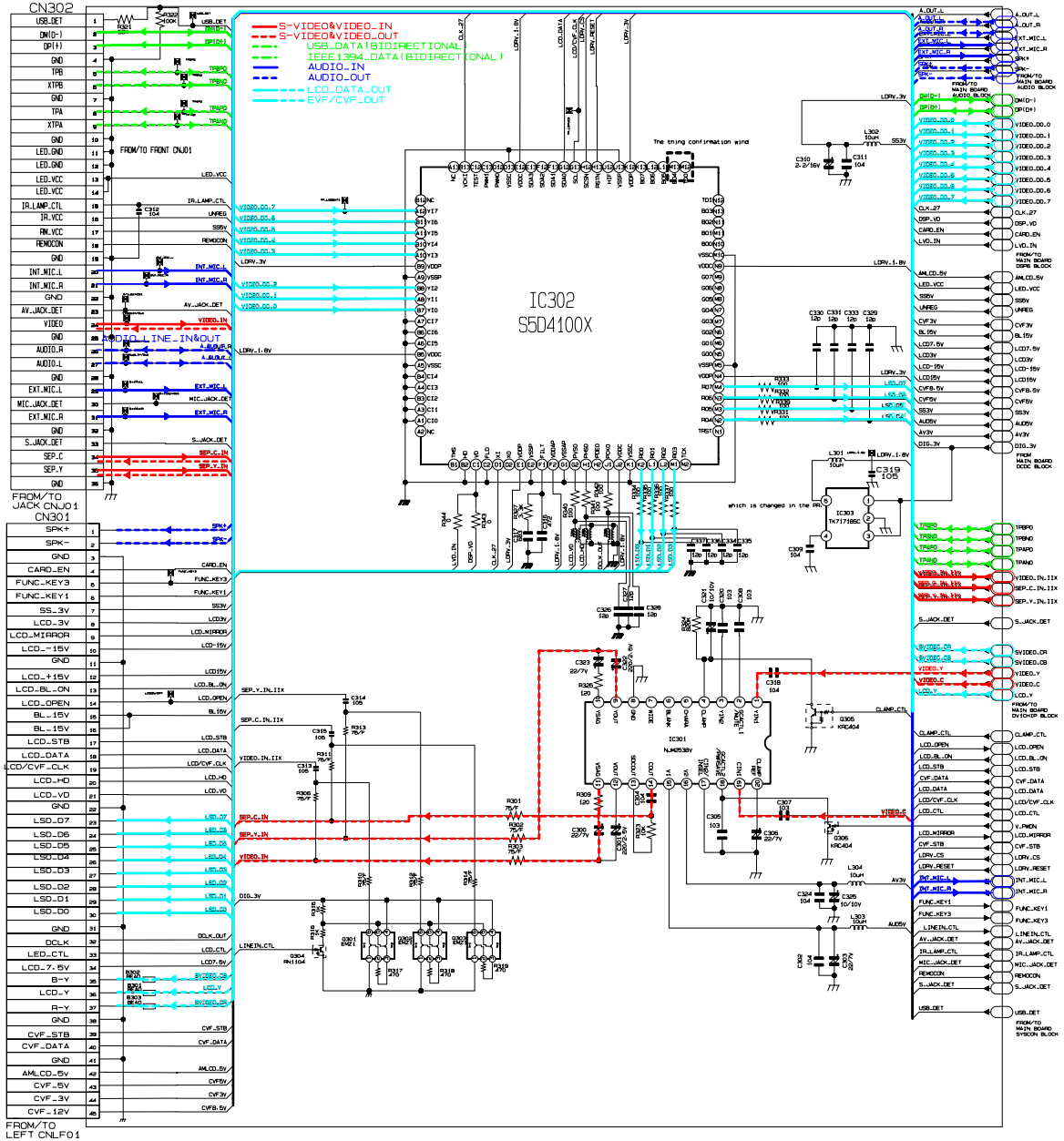
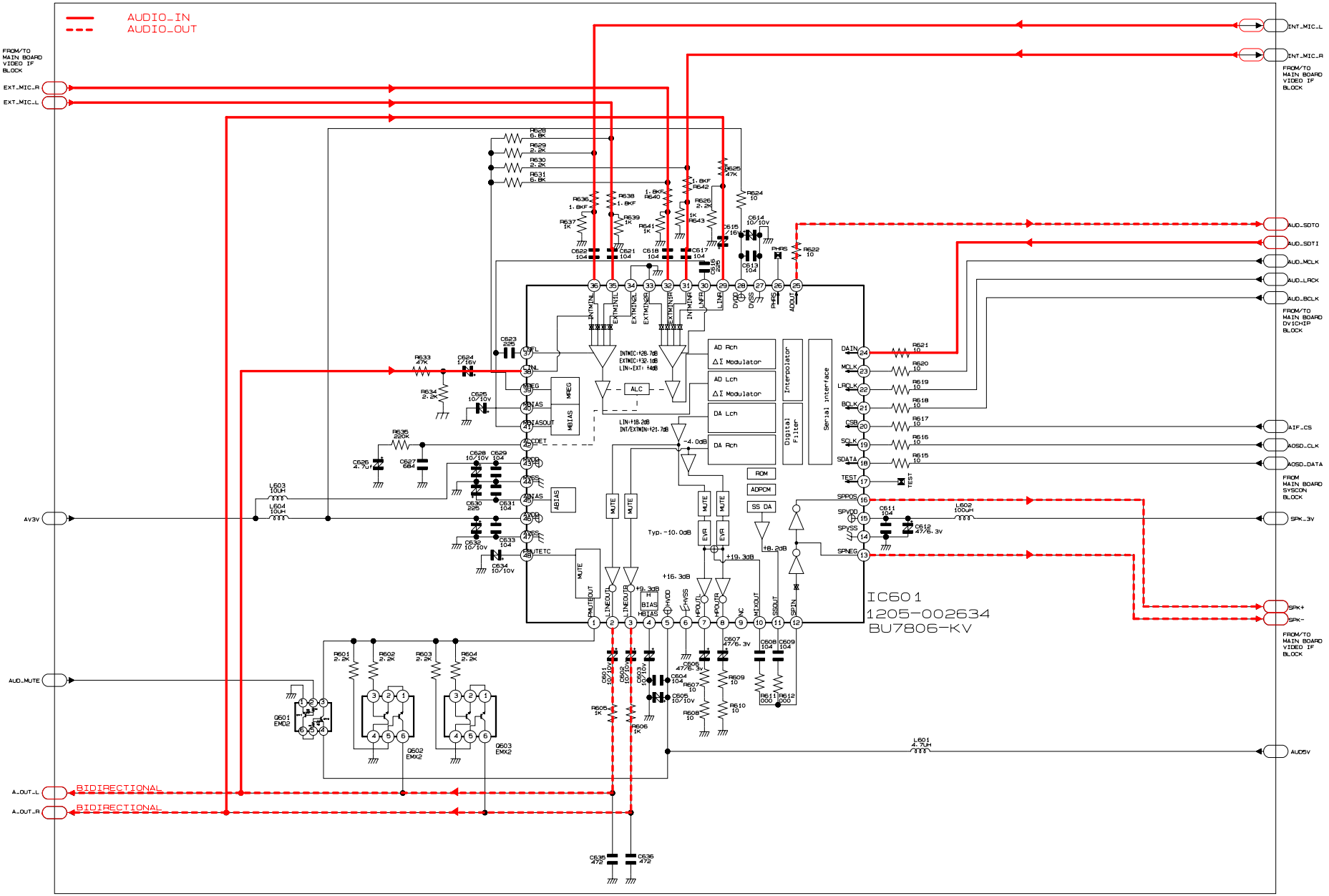
10-6 Video-Interface (Main PCB)



10-7 Audio (Main PCB)



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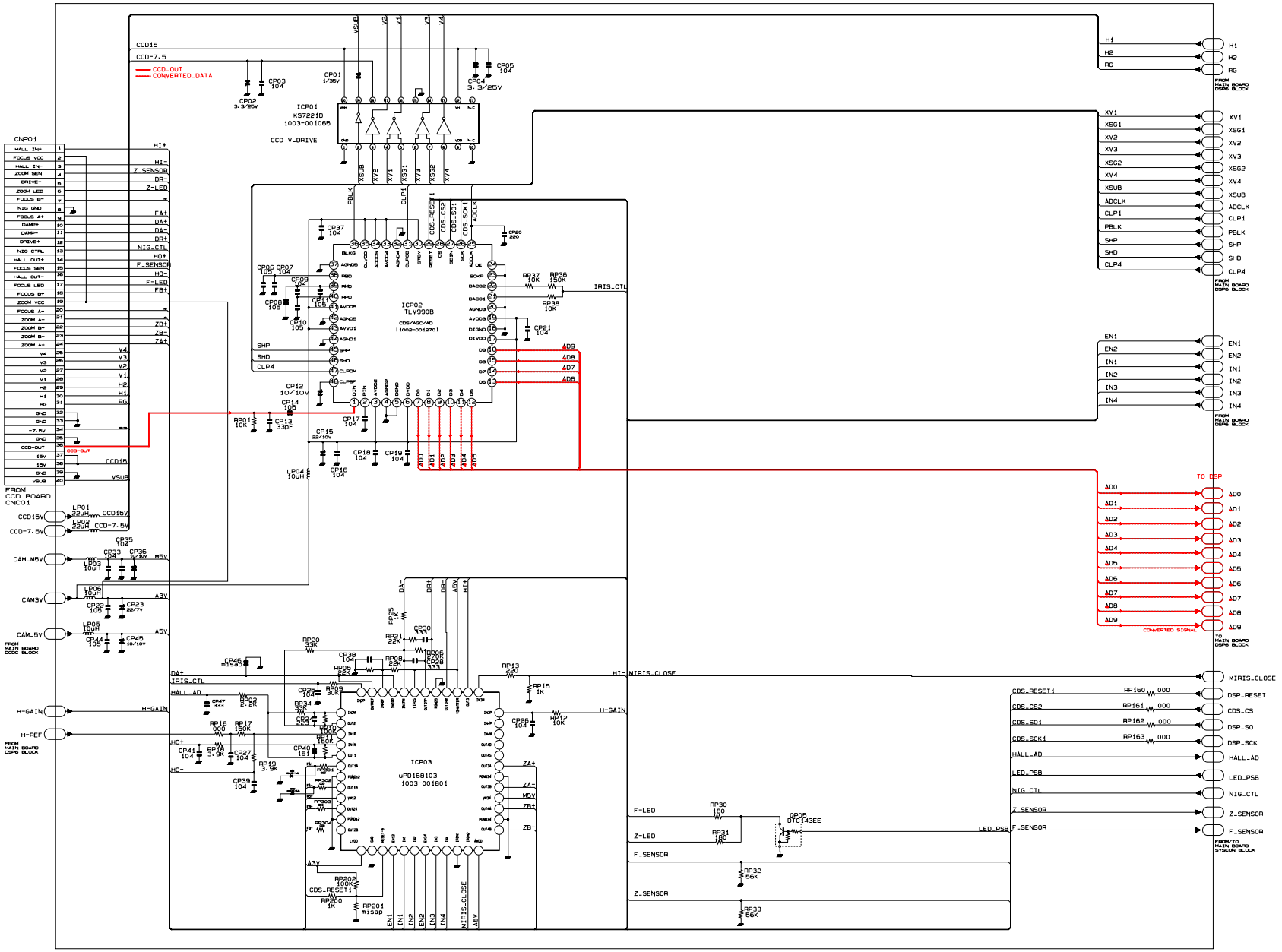
10-8 Camera Process (Main PCB)



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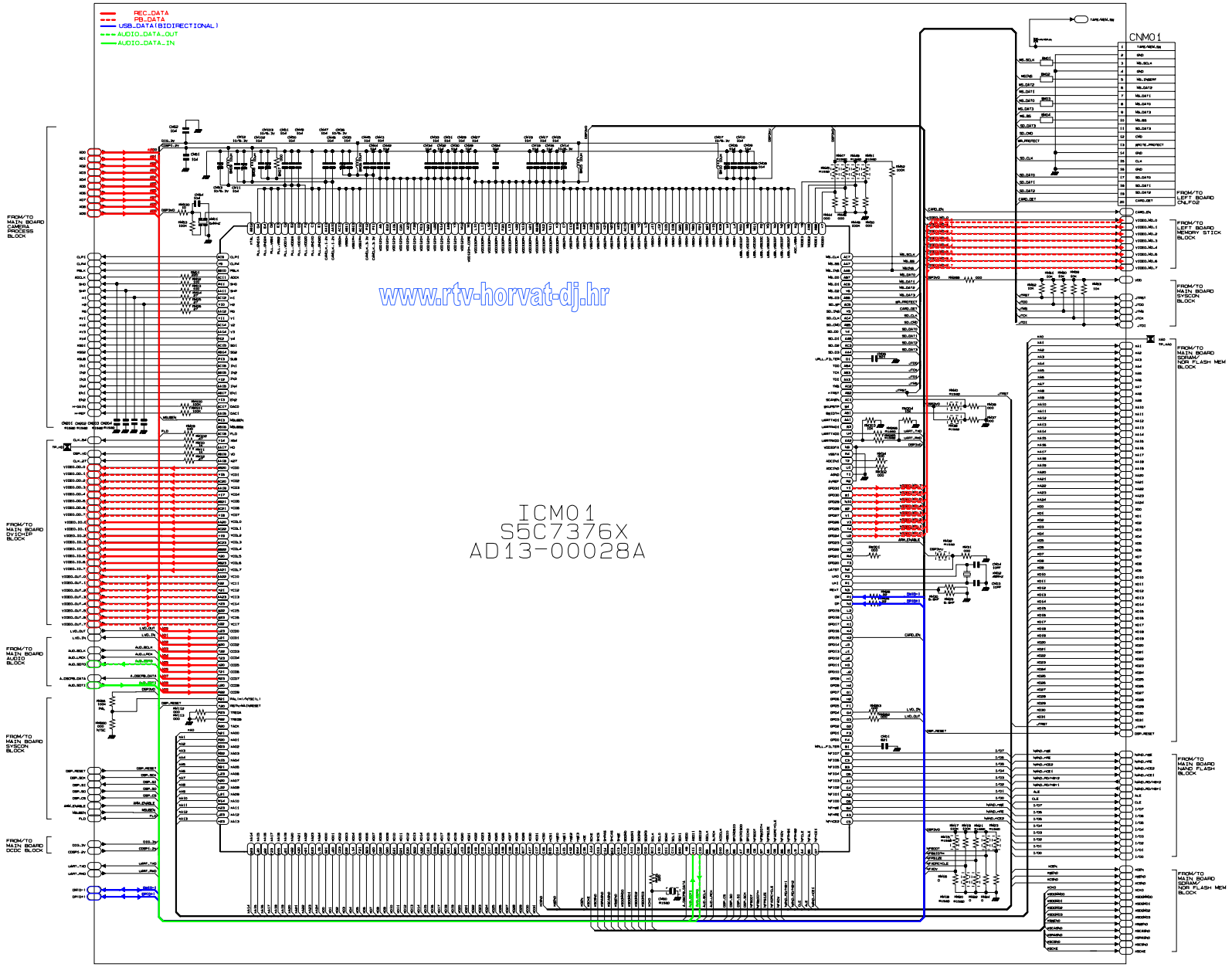
10-9 DSP (Main PCB)



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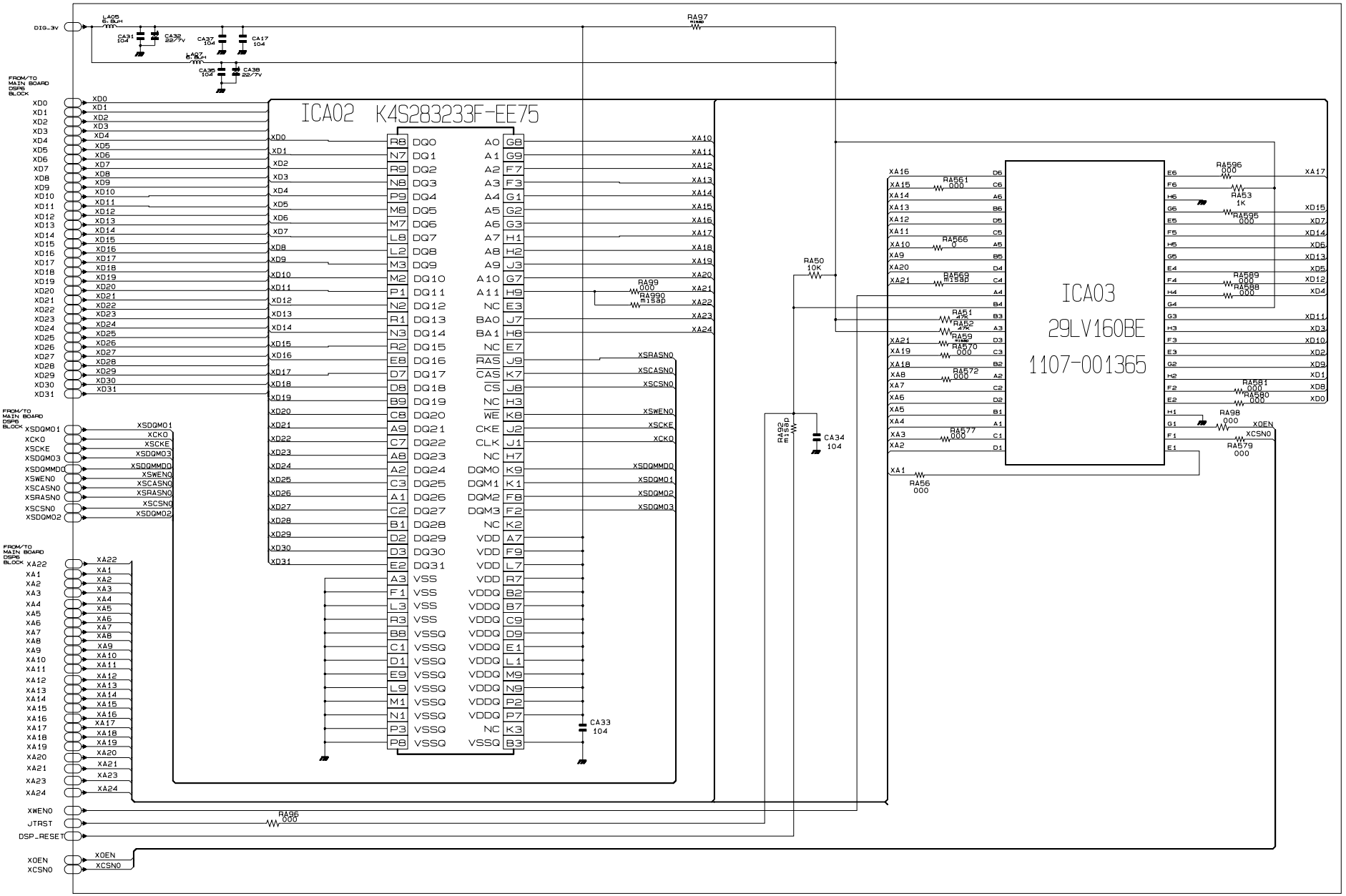
10-10 Camera Memory 1 (Main PCB)



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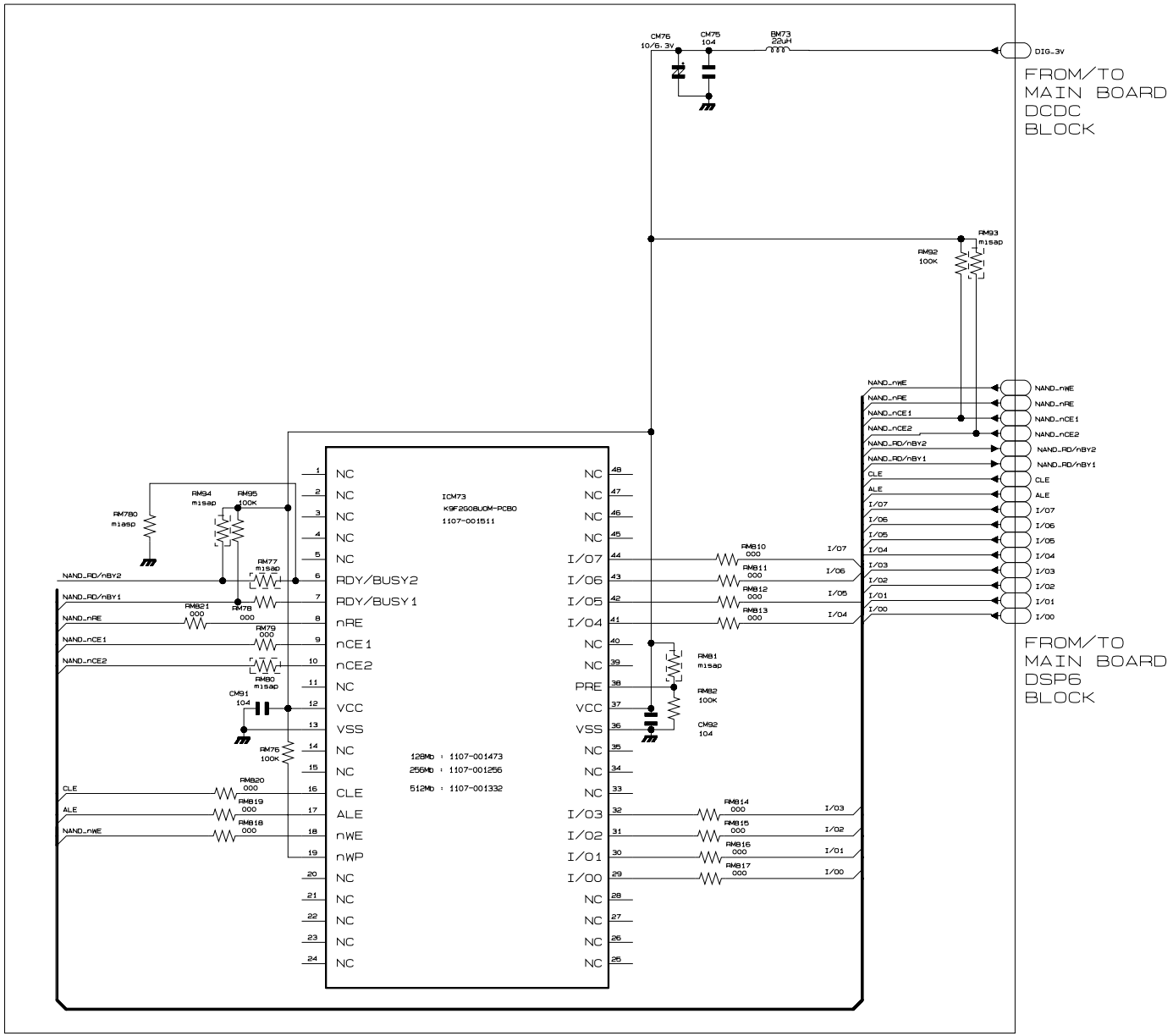
10-11 Camera Memory 2 (Main PCB)



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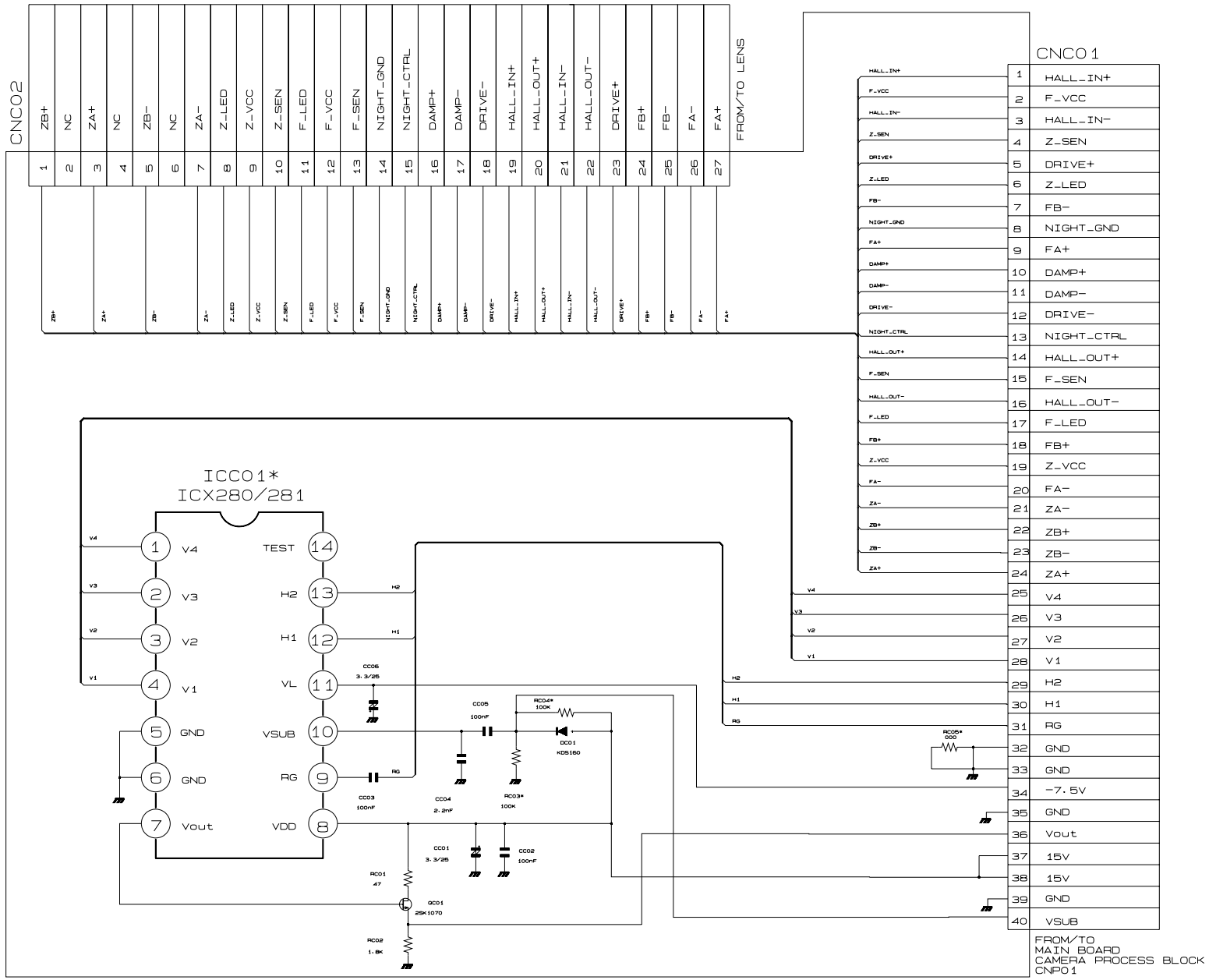
10-12 CCD (CCD PCB)



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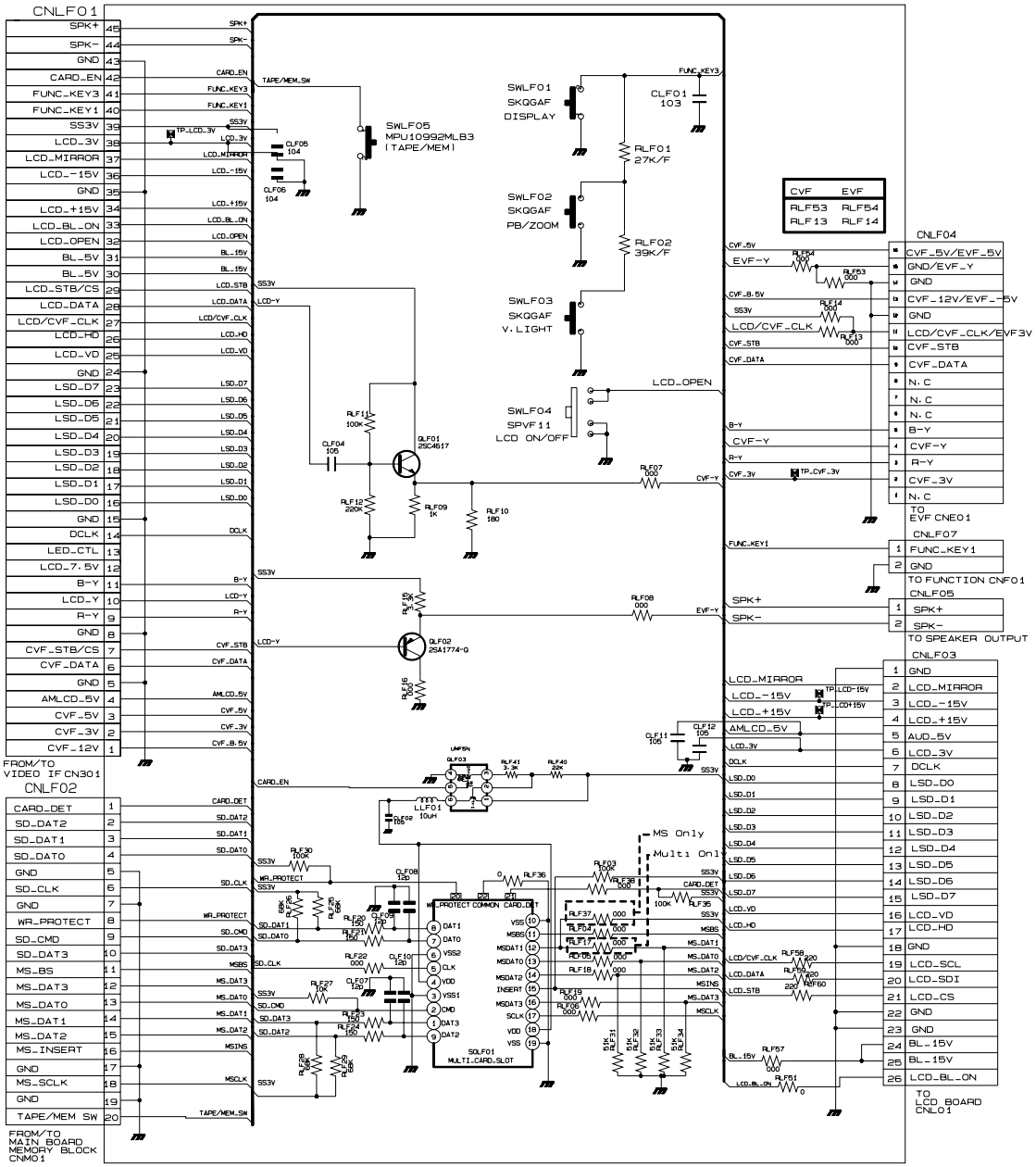
10-13 Left (Left PCB)



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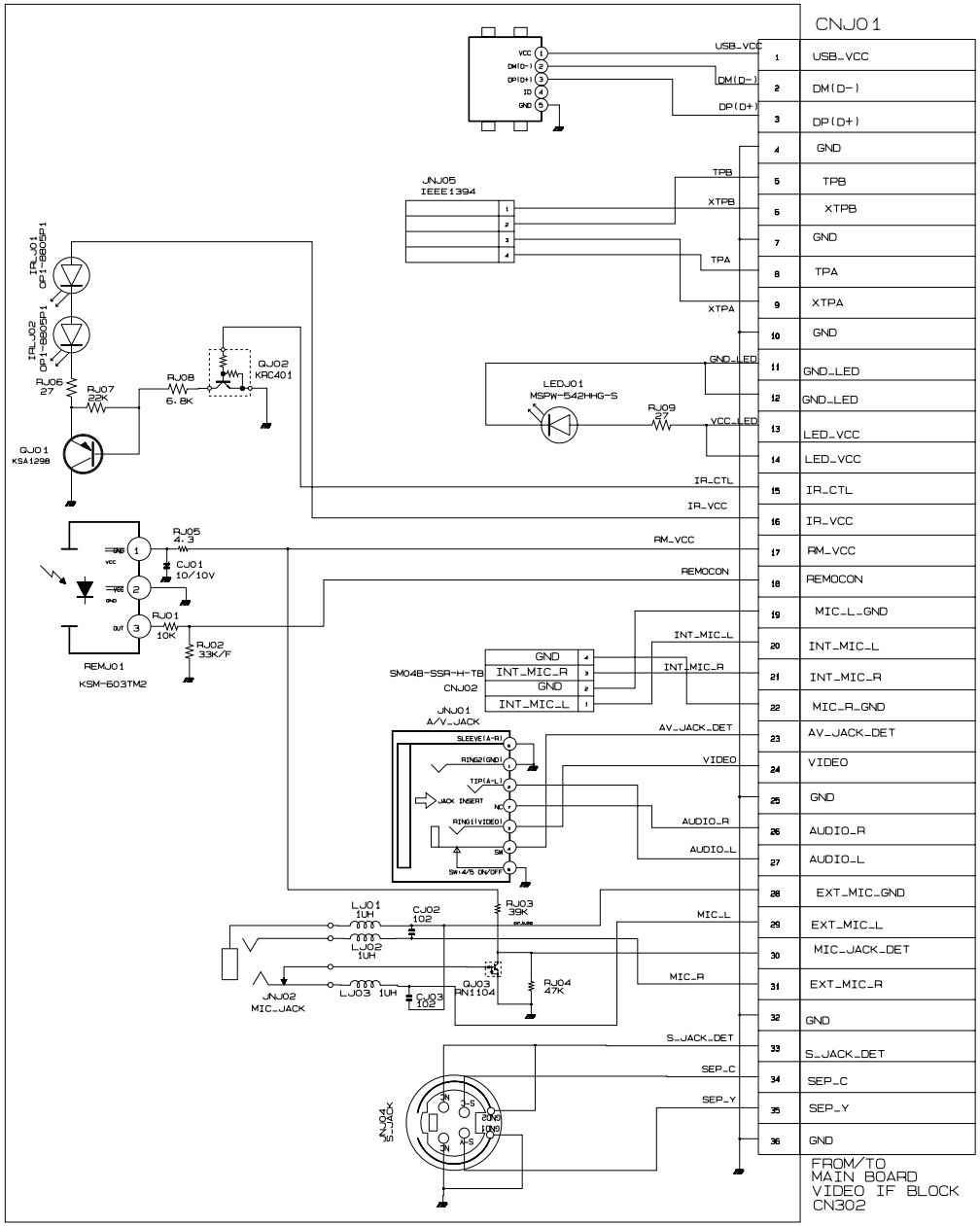
10-14 Jack (Jack PCB)



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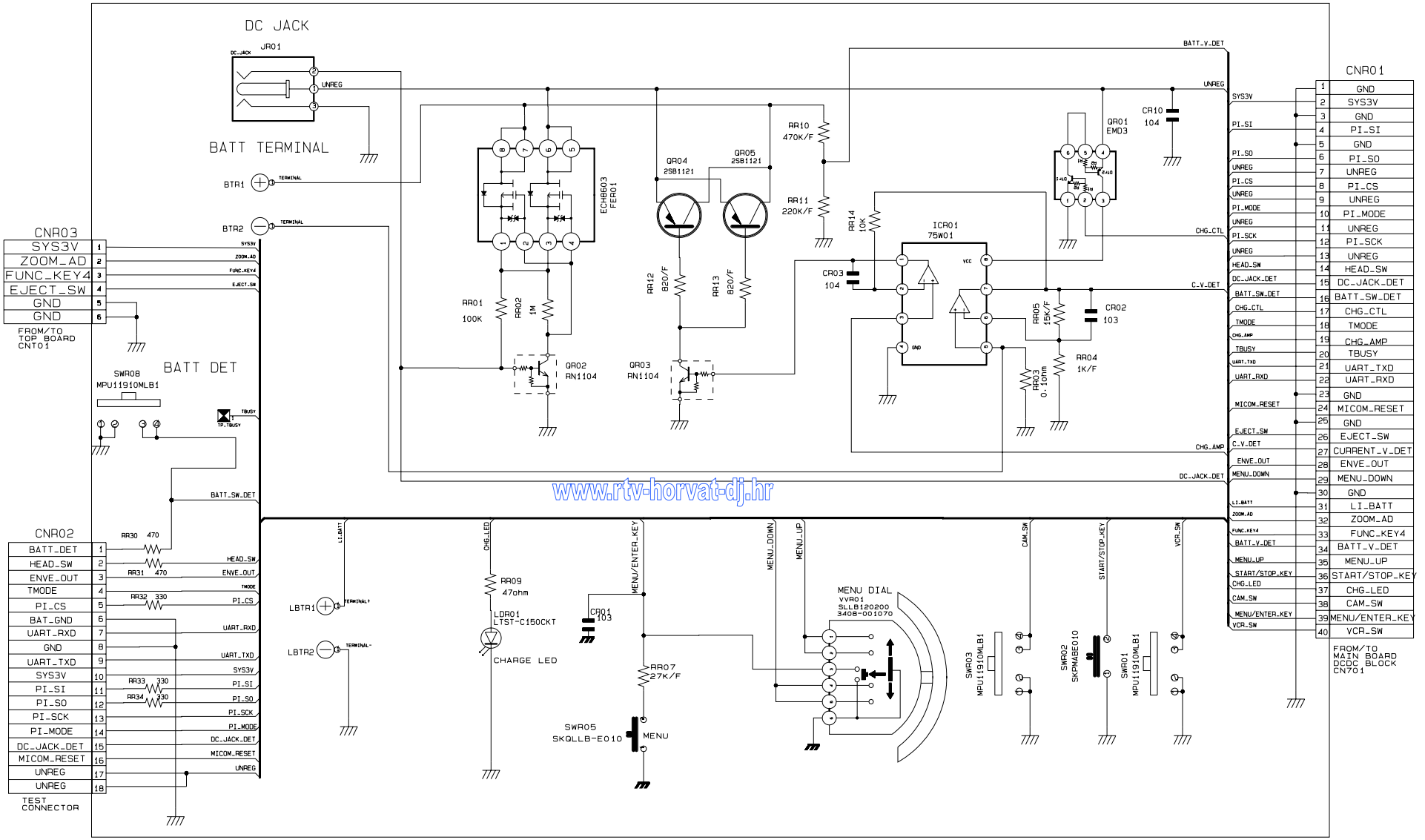
10-15 Rear (Rear PCB)



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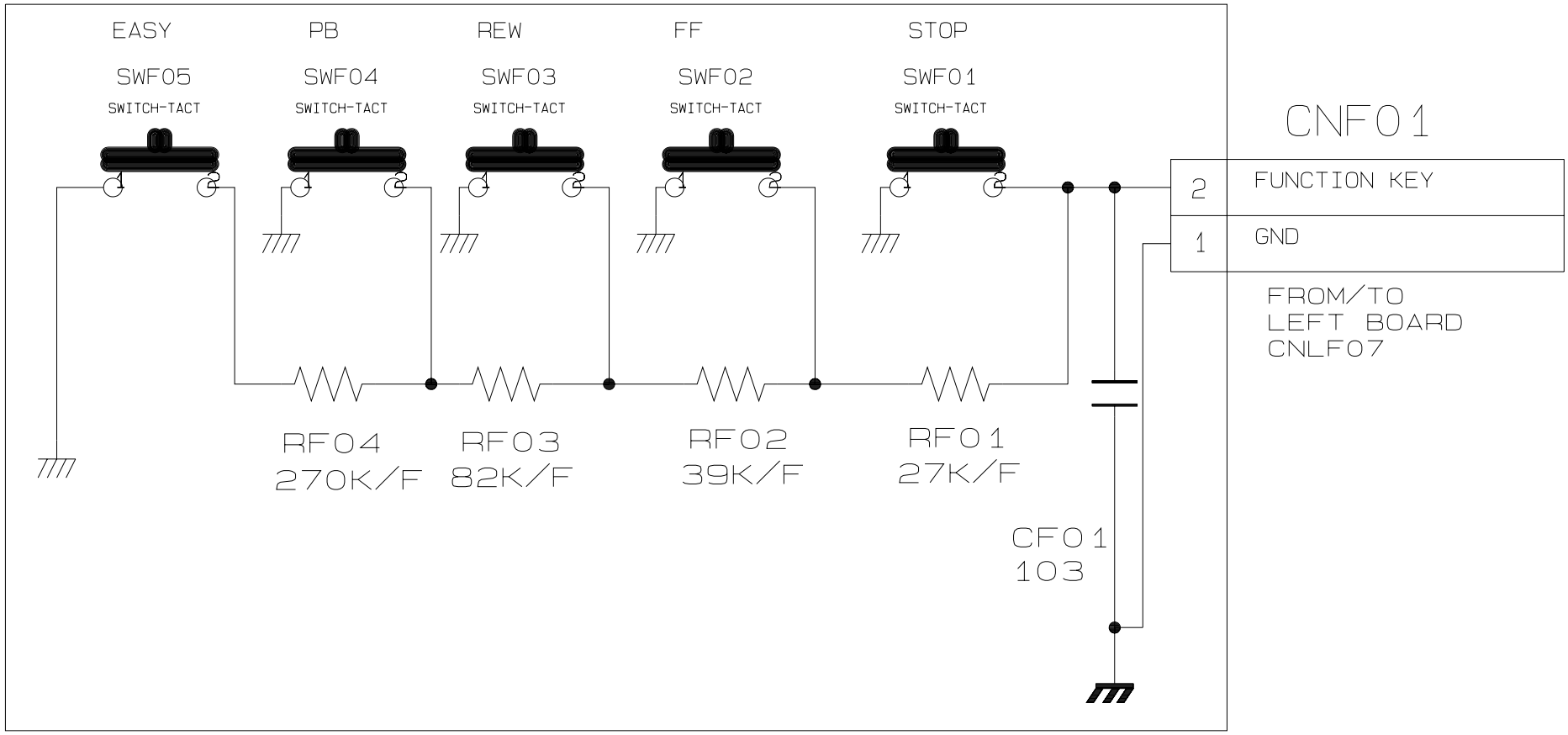
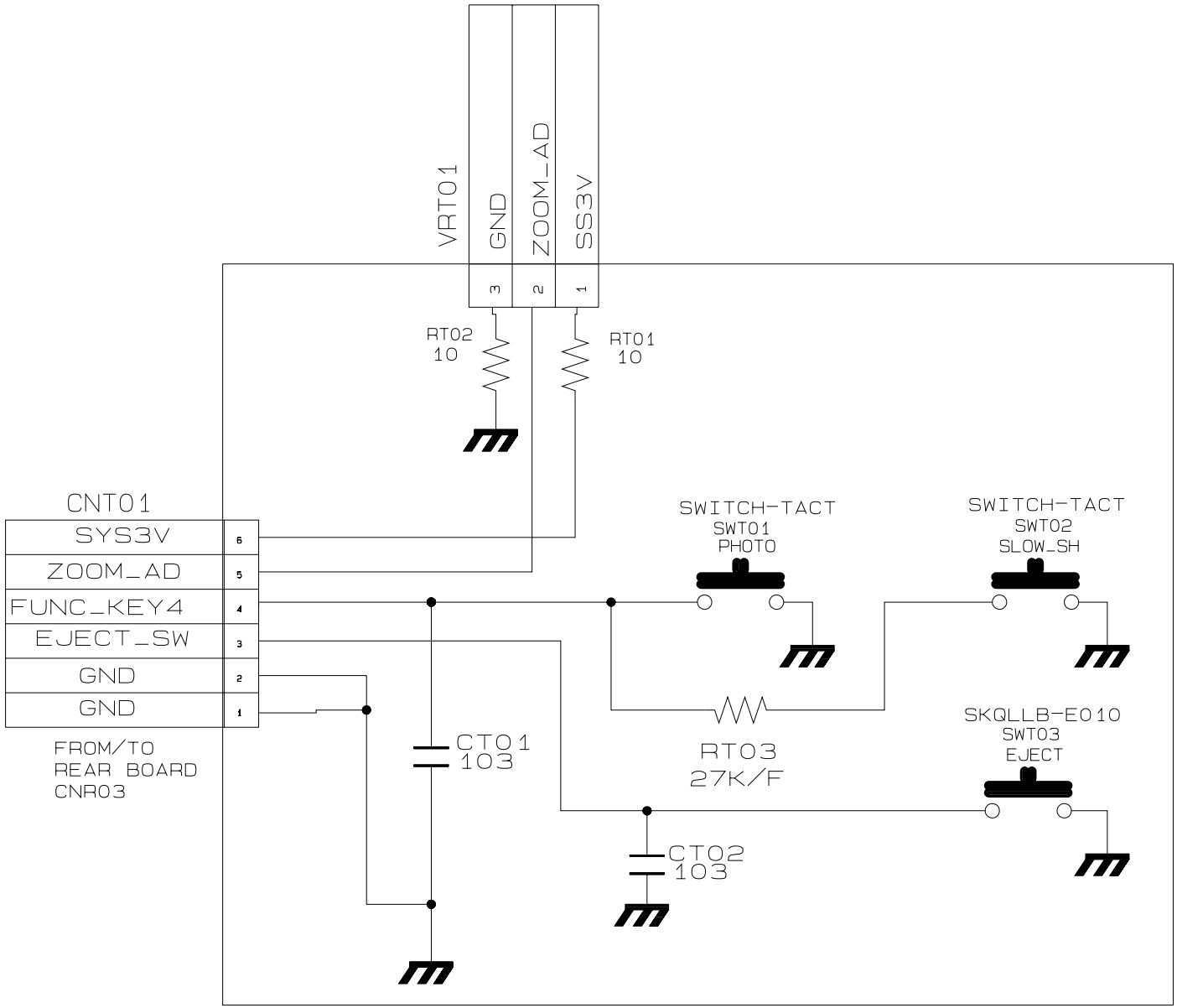
10-16 Function (Function PCB)



10-17 Top (Top PCB)



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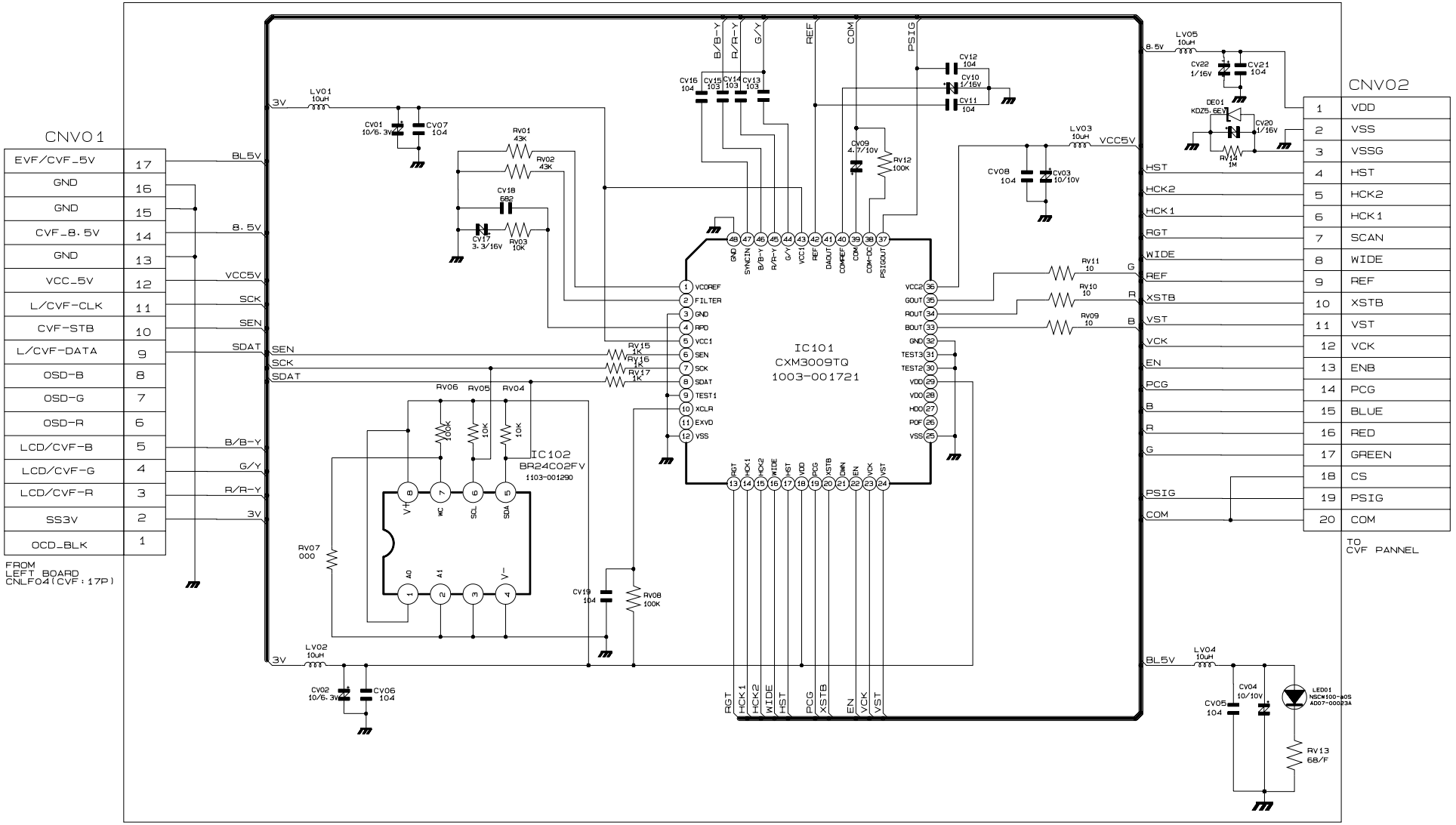
10-18 CVF (CVF PCB)



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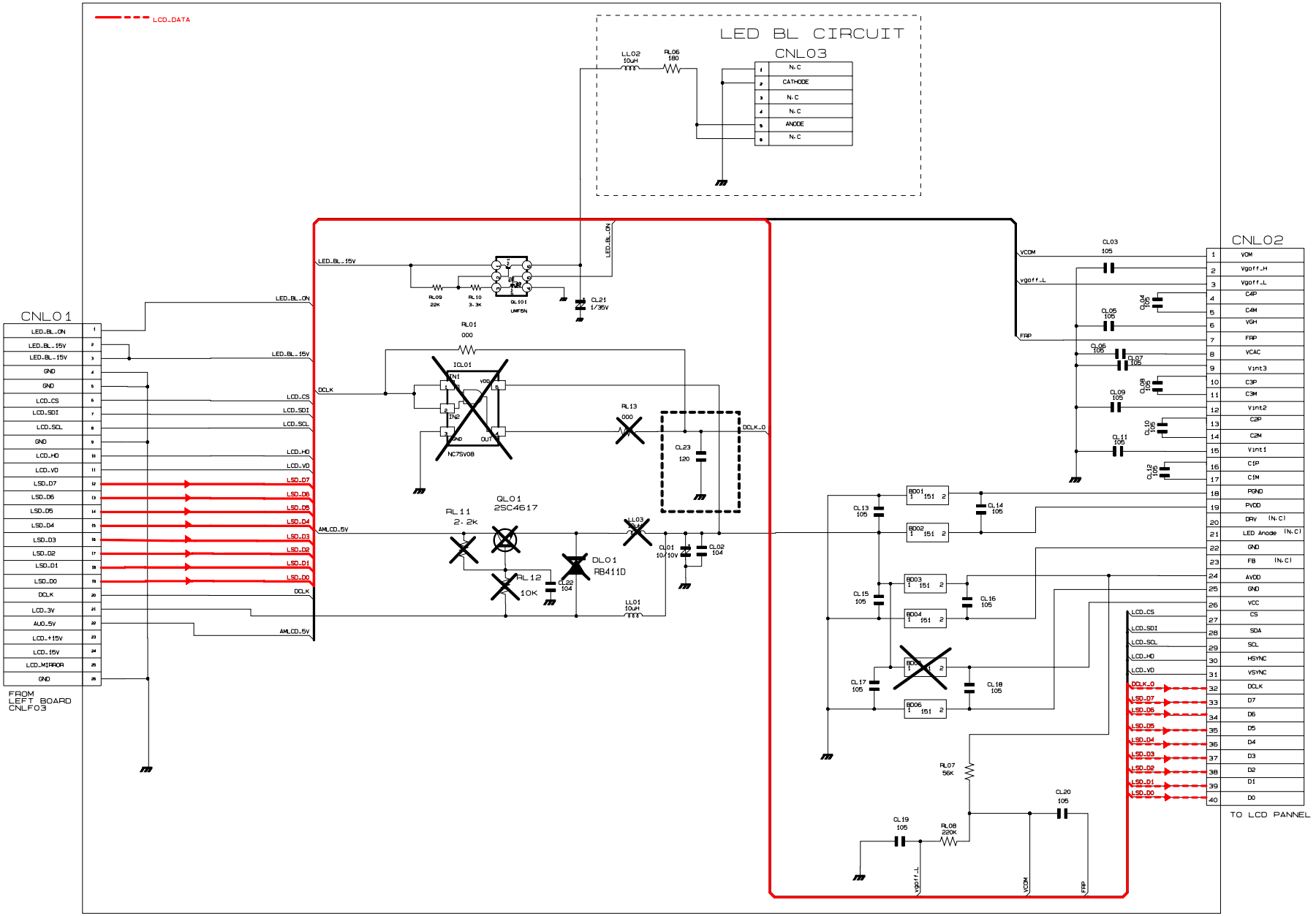
10-19 LCD (LCD PCB)



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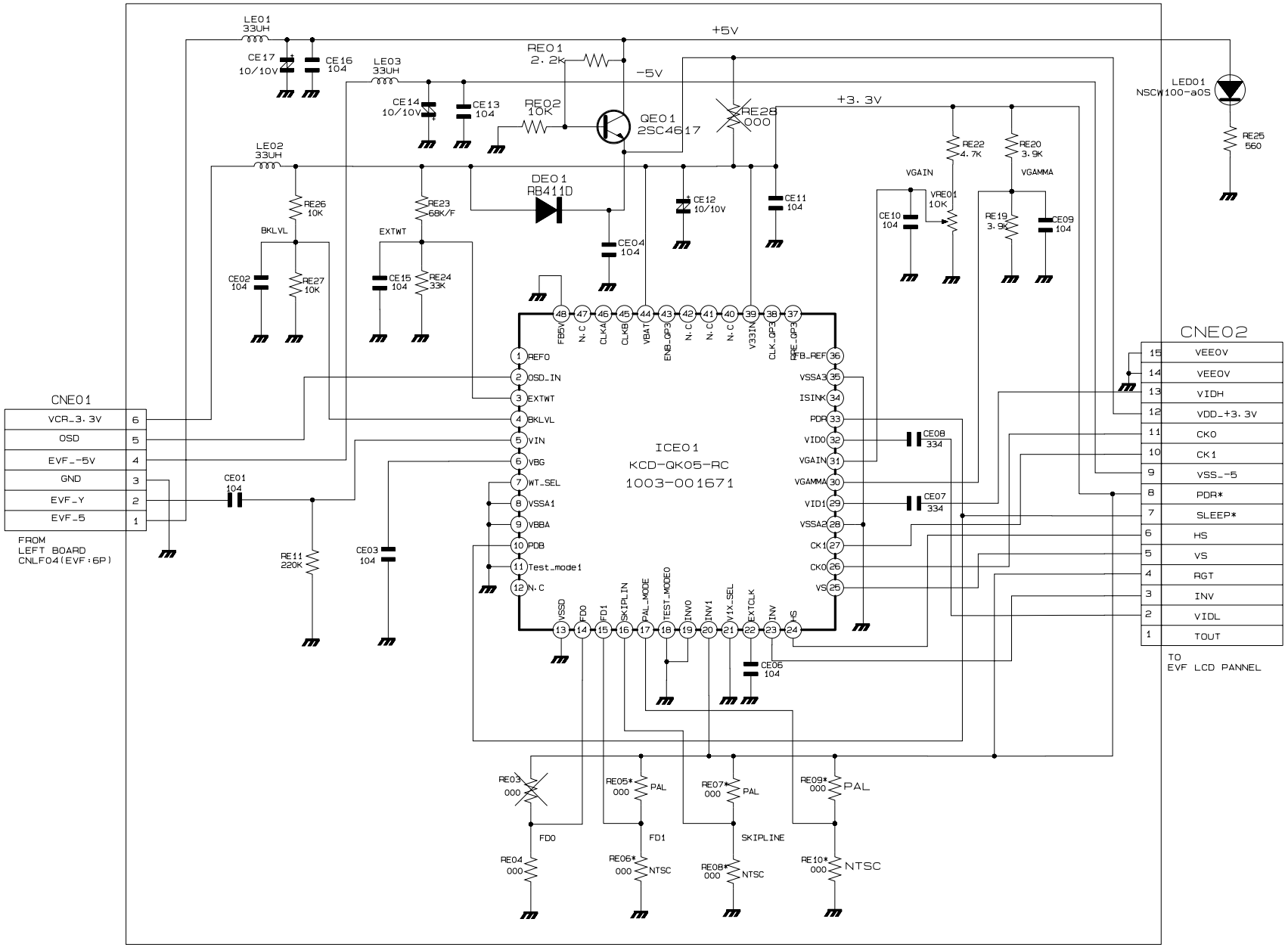
10-20 EVF (EVF PCB)



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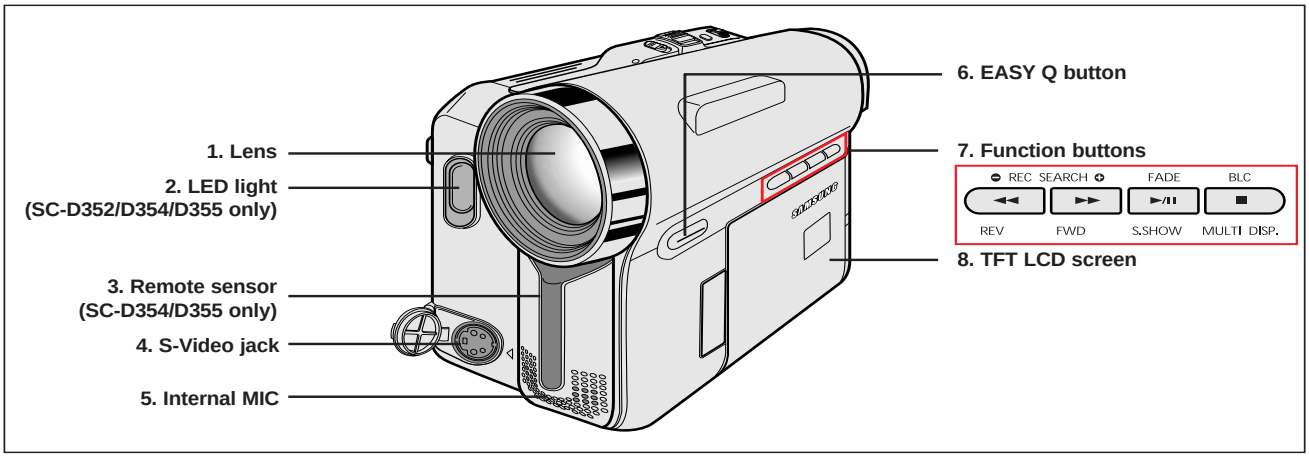
11. Operating Instructions

Getting to Know Your Camcorder

Front & Left View



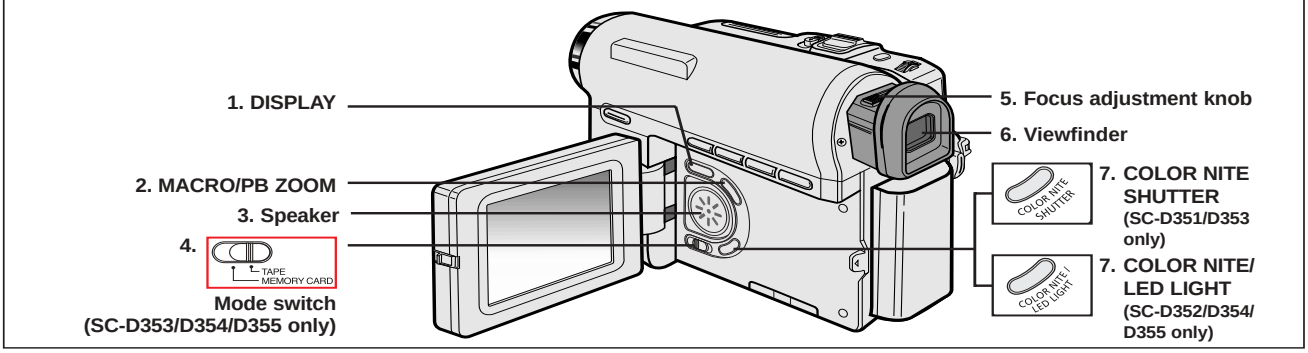
1. Lens
2. LED light (see page 48) (SC-D352/D354/D355 only)
3. Remote sensor (SC-D354/D355 only)
4. S-Video jack
5. Internal MIC
6. EASY Q button (see page 40)
7. Function buttons

PLAYER	CAMERA	M.Player (SC-D353/D354/D355 only)
-	EASY Q	-
◀◀ : REW	REC SEARCH –	REV
▶▶ : FF	REC SEARCH +	FWD
▶/II : PLAY/STILL	FADE	S.SHOW(SLIDE SHOW)
■ : STOP	BLC	MULTI DISP.

8. TFT LCD screen

Getting to Know Your Camcorder

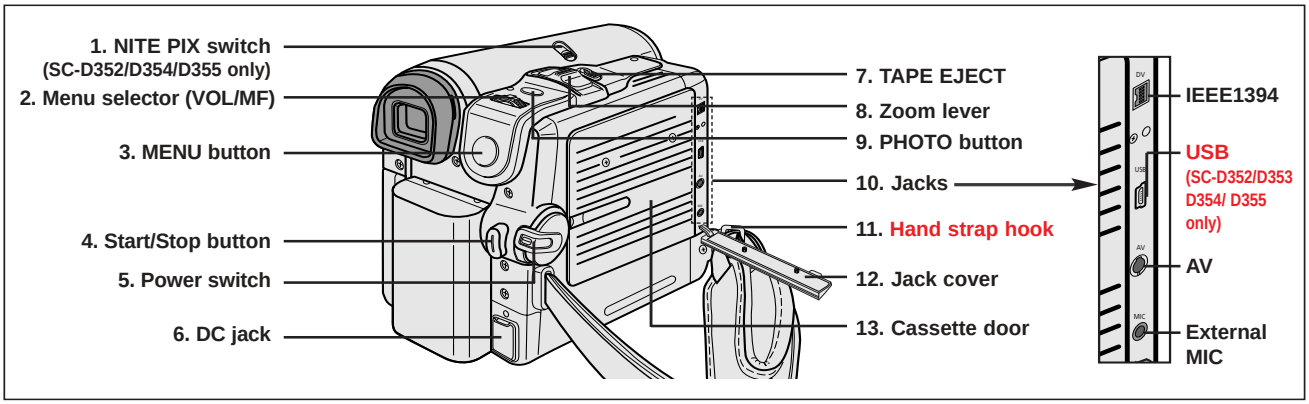
Left Side View



1. DISPLAY (see page 25)
2. MACRO/PB ZOOM (see page 44/see page 75)
3. Speaker
4. Mode switch (MEMORY CARD/TAPE) (SC-D353/D354/D355 only)
5. Focus adjustment knob
6. Viewfinder
7. COLOR NITE SHUTTER (see page 47) (SC-D351/D353 only)
7. COLOR NITE/LED LIGHT (see page 48) (SC-D352/D354/D355 only)

Getting to Know Your Camcorder

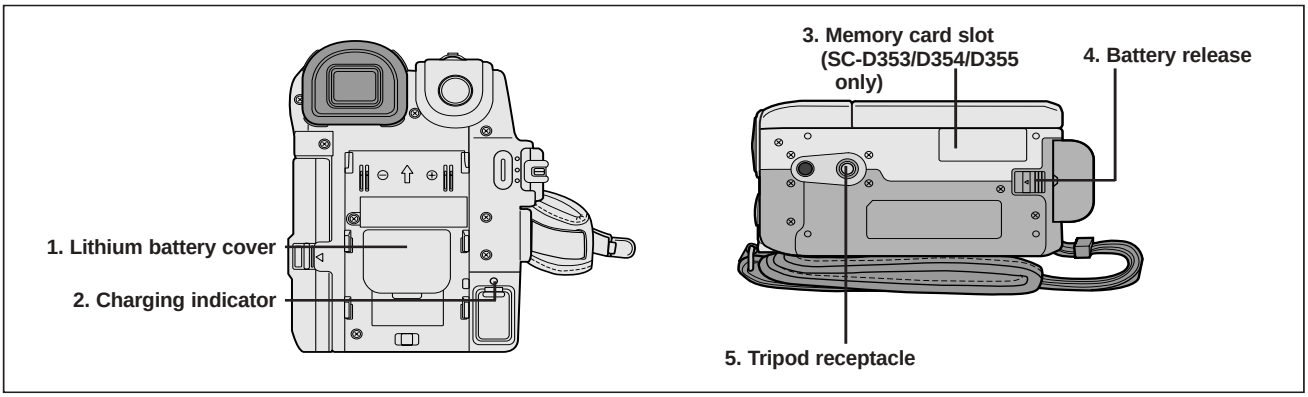
Right & Top View



1. NITE PIX switch (SC-D352/D354/D355 only)
2. Menu selector (VOL/MF)
3. MENU button
4. Start/Stop button
5. Power switch (CAMERA or PLAYER)
6. DC jack
7. TAPE EJECT
8. Zoom lever
9. PHOTO button (see page 68)
10. Jacks
11. Hand strap hook
12. Jack cover
13. Cassette door

Getting to Know Your Camcorder

Rear & Bottom View



1. Lithium battery cover
2. Charging indicator
3. Memory card slot (SC-D353/D354/D355 only)
4. Battery release
5. Tripod receptacle

Memory Card slot (Usable Memory Card)

SC-D353/D354 only	SC-D355 only
Memory Stick Memory Stick PRO	Memory Stick Memory Stick PRO SD/MMC

Preparation

Table of continuous Recording Time based on Model and Battery Type.

- If you close the LCD screen, it switches off and the Viewfinder switches on automatically.
- The continuous recording times given in the table below are approximations.
  Actual recording time depends on usage.

Time / Battery	Charging time	Continuous recording time	
		LCD ON	VIEWFINDER ON
SB-LSM80	Approx. 1hr 20min	Approx. 1hr 20min	Approx. 1hr 30min
SB-LSM160 (AD43-00148A)	Approx. 3hr	Approx. 2hr 40min	Approx. 3hr

[Notes]

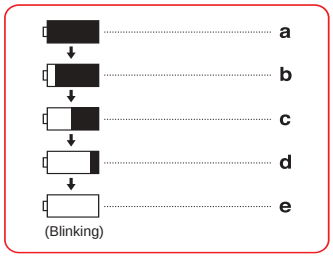
- The Battery pack should be recharged in an environment between 32 °F (0 °C)and 104 °F (40 °C).
- The Battery pack should never be charged in a room with a temperature that is below 32 °F (0 °C).
- The life and capacity of the Battery pack will be reduced if it is used in temperatures below 32 °F (0 °C) or left in temperatures above 104 °F (40 °C)for a long period of time, even when it is fully recharged.
- Do not put the Battery pack near any heat source (i.e.fire or a heater).
- Do not disassemble, apply pressure to or heat the Battery pack.
- Do not allow the **+** and **–** terminals of the Battery pack to be short-circuited.
  It may cause leakage, heat generation, induce overheating or fire.
- Use SB-LSM80 or SB-LSM160 Battery pack only.
- Use only an approved Battery pack to replace a Battery pack.

Preparation

Battery Level Display

The battery level display indicates the amount of power remaining in the Battery pack.

a. Fully charged
b. 20~40% used
c. 40~80% used
d. 80~95% used
e. Completely used (flickers)
   (The Camcorder will turn off soon, change the battery as soon as possible)



[Notes]

- Please refer to the Table on page 22 for approximate continuous recording time.
- The recording time is affected by temperature and environmental conditions.
- The recording time shortens dramatically in a cold environment.
  The continuous recording times in the operating instructions are measured using a fully charged Battery pack at 77 °F (25 °C).
  As the environmental temperature and conditions vary the remaining battery time may differ from the approximate continuous recording times given in the instructions.

IEEE 1394 Data Transfer

Transferring IEEE1394 (i.LINK)-DV standard data connections

Connecting to a DV Device (DVD Rrcorder, Camcorder etc...)

- Connecting to other DV standard products.
  A standard DV connection is quite simple.
  If a product has a DV port, you can transfer data by connecting to the DV port using the correct cable.
  !!! Please be careful since there are two types of DV ports, (4pin, 6pin). This Camcorder has a 4pin terminal.
- With a digital connection, video and audio signals are transmitted in digital format, allowing high quality images to be transferred.

Connecting to a PC

- If you want to transmit data to a PC, you must install an IEEE 1394 add-on card into the PC. (not supplied)
- The frame rate for video capture is dependent on the capacity of the PC.

[Notes]

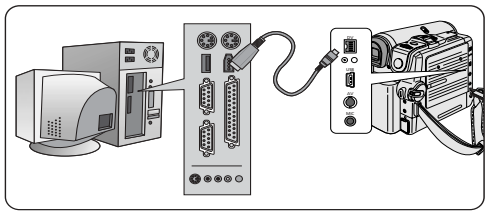
- When you transmit data from the Camcorder to another DV device, some functions may not work.
  If this occurs, please reconnect the DV cable or turn the power OFF and ON again.
- When you transmit data from the Camcorder to PC, PC function button is not available in M.Player mode.
- Do not use the Camcorder and IEEE1394 together as this will cause IEEE1394 to shut off.
- Do not connect the Camcorder to a PC using both DV and USB cables. It may not operate properly.
- Operation is not guaranteed for all computer environments recommended above.
- The IEEE1394 cable (DV cable)is sold separately.
- Video Capture software is commercially available.
- Most DV enabled PCs have a 6 pin socket. In this case, a 6-4 cable is required for the connection.
- Most DV enabled Notebooks and Laptops have a 4 pin socket. Use a 4-4 cable for the connection.

IEEE 1394 Data Transfer

System Requirements

- CPU: faster Intel® Pentium 3™ 450MHz compatible.
- Operating system: Windows® 98SE, ME, XP, Mac OS (9.1~10.2)
- Main memory: more than 64 MB RAM
- IEEE1394 add-on card or built in IEEE1394 card

Recording with a DV Connection Cable



1. Set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **TAPE**. (SC-D353/D354/D355 only)
3. Connect the DV cable (not supplied) from the DV jack of the Camcorder to the DV jack of the other DV device.
   - Make sure that DV is displayed on the LCD screen.
4. Press the **Start/Stop** button to begin **REC PAUSE** mode.
   - **PAUSE** is displayed on the LCD screen.
5. Start playback on the other DV device while you monitor the picture.
6. Press the **Start/Stop** button to start recording.
   If you want to pause recording momentarily, press the **Start/Stop** button again.
7. To stop recording, press the ■(STOP) button.

[Notes]

- When using this Camcorder as a recorder, the pictures that appear on a monitor may seem uneven, however recorded pictures will not be affected.
- Operation is not guaranteed for all the recommended computer environments mentioned above.

USB Interface (SC-D352/D353/D354/D355 only)

Transferring a Digital Image through a USB Connection

- The camcorder supports both USB 1.1 and 2.0 standards. (Depends on the PC specification)
- You can easily transfer a image from a Memory card to a PC without additional add-on cards via a USB connection.
- You can transfer an image to a PC via a USB connection. (SC-D353/D354/D355 only)
- If you transfer data to a PC, you need to install the software (Driver, DV Media Pro, DirectX 9.0a) supplied with the Camcorder.

USB Connection speed depending on the System

High speed USB connection is supported by Microsoft (Windows) device drivers only.

- Windows 98SE/ME - Full Speed USB
- Windows 2000 - High speed USB on a system with Service Pack 4 or later installed.
- Windows XP - High speed USB on a system with Service Pack 1 or later installed.

System Requirements

	Windows System	
	Minimum	Recommended
CPU	Intel® Pentium III™, 600MHz	Intel® Pentium 4™ , 2GHz
OS	Windows® 98SE/ME	Windows® 2000/XP
Memory	128MB	512MB
HDD capacity	1GB or more	2GB or more
Resolution	1024 x 768 dots 24bit Color	1024 x 768 dots 24bit Color
USB	USB1.1	USB2.0 High Speed

- It is not available for Macintosh systems.

[Notes]

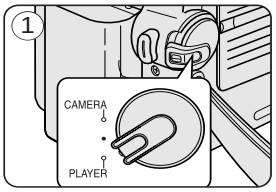
- On a slower PC than recommended, movie playback may not be smooth or video editing may take a long time.
- On a slower PC than recommended, movie playback may skip frames or operate unexpectedly.
- Intel® Pentium III™ or Pentium 4™ is a trademark of the Intel Corporation.
- Windows® is a registered trademark of the Microsoft® Corporation.
- All other brands and names are property of their respective owners.
- Operations are not guaranteed for all of the recommended computer environments mentioned above.
- Do not connect the Camcorder to a PC using both DV and USB cables. It may not operate properly.
- In CAMERA mode, be sure that the Memory card is inserted into Camcorder before connecting USB cable. If no Memory card or an unformatted Memory card is inserted, PC will not recognize your Camcorder as a removable disk. (SC-D353/D354/D355 only)
- USB Streaming requires DV Media Pro, Driver and DirectX 9.0a.
- If you disconnect the USB cable from the PC or the Camcorder during the data transfer, the data transfer will stop and the data may be damaged.

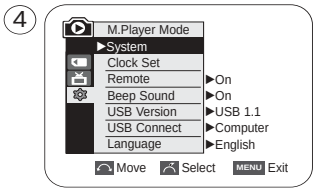
USB Interface (SC-D352/D353/D354/D355 only)

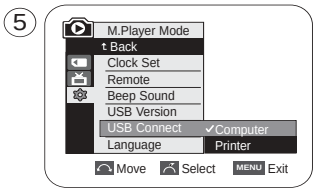
Selecting the USB Device

- USB Select function works only in M.Player mode.
- Using the USB cable, you can connect your Camcorder to a computer to copy your movies and images from the Memory card (or built-in memory;SC-D354/D355), or to a printer to print your images.

1. Set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **MEMORY CARD**. (SC-D353/D354/D355 only)
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Menu selector** to the left or right to select **System**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **USB Connect**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select **Computer** or **Printer**, then press the **Menu selector**.
7. To exit, press the **MENU** button.



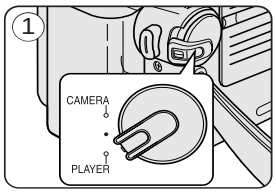




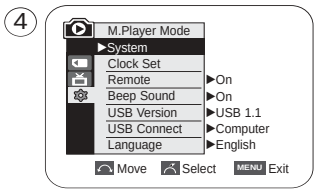
USB Interface (SC-D352/D353/D354/D355 only)

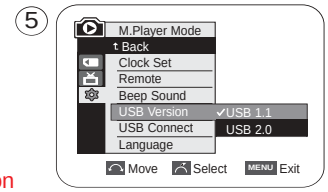
Setting the USB Communication Speed

- To ensure proper communication between the camcorder and a PC, please set the USB Version before connecting the camcorder to a PC.
- USB Version is accessible in every mode.



1. Set the **Power** switch to **CAMERA** or **PLAYER**.
2. Set the **Mode** switch to **TAPE** or **MEMORY CARD**. (SC-D353/D354/D355 only)
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Menu selector** to the left or right to select **System**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **USB Version**, then press the **Menu selector**.
   - Set the USB Version to USB 2.0 when it is supported by both PC and its OS.
   - If either the PC or OS does not support USB 2.0, set the USB Version to USB 1.1.
6. To exit, press the **MENU** button.





[Notes]

- When the USB Version is not set properly, the USB connection may not be established.
- USB2.0 may not be supported by certain PCs depending on their specifications. In this case, choose the USB1.1 for USB connection.
- When selected USB2.0 is not supported by the PC, the USB1.1 will be used for the USB connection automatically.

USB Interface (SC-D352/D353/D354/D355 only)

Installing DV Media Pro Program

- To play back MPEG moving pictures recorded by the camcorder or streaming data transferred through the USB connection on a PC, the DV Media Pro program should be installed.
- **DV Media Pro User's Manual is included on the accompanying CD(D:\help\) in Adobe's Portable Document Format(PDF) The user's manual can be viewed using Acrobat Reader software, which is also included on the CD. (The Acrobat Reader is a freeware product of AdobeSystems,Inc.)**
- Do not connect the Camcorder to PC before installing the program.
- If another Camcorder or scanner is connected, please disconnect it in advance.
- This explanation is based on Windows® 98SE OS.

Program Installation

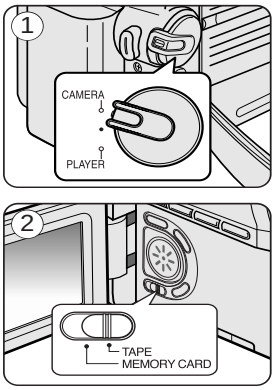
1. Insert the software CD into the CD-ROM drive of your camputer.
   Installation selection screen appears on the monitor.
2. If the installation selection screen does not appear after inserting the CD click “Run” in the Windows “Start” menu and execute SETUP.EXE file to begin installation.
   When CD-ROM drive is set to “D:drive”, type “D:/setup.exe” and press Enter.
3. Click the icons listed below to install the selected software.
   - DV Driver Click
     USB removable Disk Driver (Windows® 98SE only)
     USB PC CAMERA & STREAMING Driver (VIDEO CODEC installed)
   - DirectX 9.0a Click
   - DV Media Click
     A Video Codec for playing back MPEG moving pictures recorded by the camcorder or streaming data transferred through the USB connection on a PC is installed. (A file recorded by another device cannot be played back.)
   - MS Formatter Click
     A dedicated formatter for the Memory Stick only.

USB Interface (SC-D352/D353/D354/D355 only)

Using the PC Camera Function

- To use the PC Camera function, the DV Media Pro, DirectX 9.0a. (included in the CD) programs must be installed in the PC.
- You can use this Camcorder as a PC CAMERA.
- When you connect to a Web site that provides video chatting functions, you can use your Camcorder for such functions.
- When using this camcorder for video conferencing (such as NetMeeting), voice communication may not be supported depending on the video conferencing software. In this case, connect an external microphone to the soundcard of the PC to enable voice communication.
- Using the Camcorder with PC Net-meeting program installed, you can Participate in video conference.
- The PC CAMERA's screen size (Transferred video frame rate for the PC Camcorder function is max 15 fps.)
  - 320X240 (QVGA) pixels for USB 1.1 connection.
  - 640X480 (VGA) pixels for USB 2.0 connection.
- If PC is connected with the USB to the Camcorder, only the Power, Mode, Zoom and NITE PIX switchs can be operated. (SC-D352/D354/D355 only)

1. Set the **Power** switch to **CAMERA**.
2. Set the **Mode** switch to **TAPE**. (SC-D353/D354/D355 only)
3. Connect one end of the USB cable to the USB jack on the Camcorder and the other end to the USB connector on your computer.



USB Interface (SC-D352/D353/D354/D355 only)

Using the USB Streaming Function

- To use USB streaming, the DV Media Pro, DirectX 9.0a. (included in the CD) programs must be installed in the PC.
- You can view Camcorder video on your PC using USB streaming.
- You can also store it as a moving picture in the "avi" file format, or as a still image in the "jpg" file format on a PC.

1. Set the **Mode** switch to **TAPE**(SC-D353/D354/D355 only), set the **Power** switch to **CAMERA** or **PLAYER**.
2. Connect one end of the USB cable to the USB jack on the Camcorder and the other end to the USB port on your computer.
3. Execute the DV Media Pro program.
   If you want a detailed description of USB streaming, refer to the DV Media Pro User's Manual.

Using the removable Disk Function (SC-D353/D354/D355 only)

- You can easily transfer data from a Memory card to a PC without additional add-on cards via a USB connection.

1. Set the **Mode** switch to **MEMORY CARD**, set the **Power** switch to **CAMERA** or **PLAYER**.
2. Connect one end of the USB cable to the USB jack on the Camcorder and the other end to the USB port on your computer.

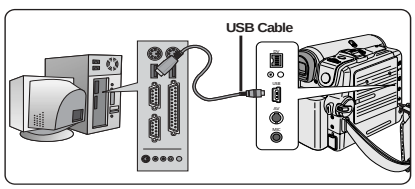
Connecting to a PC

1. Connect a USB cable to the USB port on the PC.
2. Connect the other end of the USB cable into the USB jack on the Camcorder. (USB jack)
   If a PC is connected to the Camcorder with a USB cable only, the Power switch, Zoom switch and NITE PIX operate. (SC-D352/D354/D355 only)

Disconnecting the USB Cable

- After completing the data transmission, you must disconnect the cable in the following way:

1. Select the removable disc icon and click the right mouse button to select [Eject].
2. Select [Confirm] and disconnect the USB cable when the Windows Splash screen appears.



[Notes]

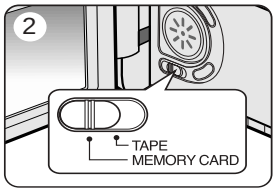
- If you disconnect the USB cable from the PC or the Camcorder while transferring, the data transmission will stop and the data may be damaged.
- If you connect the USB cable to a PC via a USB HUB or simultaneously connect the USB cable along with other USB devices, the Camcorder may not work properly.
  If this occurs, remove all USB devices from the PC and reconnect the Camcorder.

Digital Still Camera Mode (SC-D353/D354/D355 only)

Selecting the Image Quality

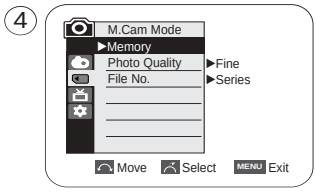
⌘ You can select the quality of a still images to be recorded.

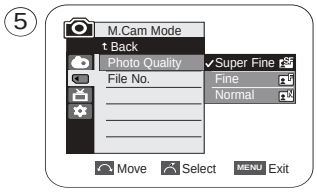
Select the Image Quality



1. Set the **Power** switch to **CAMERA**.
2. Set the **Mode** switch to **MEMORY CARD**.
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Menu selector** to the left or right to select **Memory**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **Photo Quality**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select desired image quality(**Super Fine**, **Fine**, **Normal**), then press the **Menu selector**.
7. To exit, press the **MENU** button.

■ The selected icon will be displayed





Number of Images on the Memory Card

QUALITY	8MB	16MB
Super Fine	Approx. 50	Approx. 100
Fine	Approx. 62	Approx. 125
Normal	Approx. 82	Approx. 167

The actual number of images that you can record varies depending on the nature of the subject to be recorded.

[Notes]

- The above approximation is based on a 16MB memory stick under normal recording conditions.
- The number of pictures that can be stored on a memory card depends on various conditions.

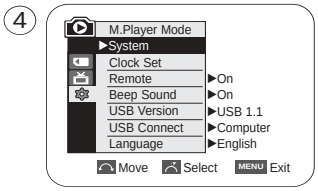
PictBridge™

Printing Your Pictures – Using the PictBridge™

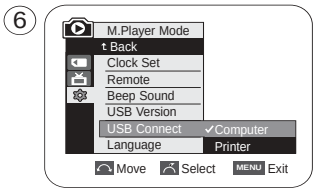
⌘ By connecting the Camcorder to printers with PictBridge support (sold separately), you can send images from the Memory card directly to the printer with a few simple operations.

⌘ With the PictBridge Support, you can control the printer directly through your Camcorder in order to print out stored pictures. For direct printing of your stored pictures using the PictBridge function, you must connect your Camcorder to a PictBridge printer using a USB cable.

Connecting To a Printer



1. Turn your printer power off.
   Turn your Camcorder on by setting the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **MEMORY CARD**. (SC-D353/D354/355 only)
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Menu selector** to the left or right to select **System**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **USB Connect**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select **Printer**, then press the **Menu selector**.
   - Computer: Connect to a computer.
   - Printer: Connect to a printer. (To use the PictBridge function, connect to a printer.)
7. Connect your Camcorder to the printer using the provided USB cable.
8. Turn your printer power on.
   The PictBridge menu screen appears automatically after a short period.
   The cursor highlights the item Printer.

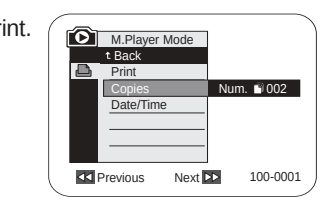


Selecting Images

1. In the PictBridge settings menu, press the ◀◀ / ▶▶ (REV/FWD) buttons to select an image to print.

Setting the Number of Prints

2. Move the **Menu selector** to the left or right to select **Copies**, then press the **Menu selector**.
3. Move the **Menu selector** to the left or right to set the number of prints, then press the **Menu selector**.



PictBridge™

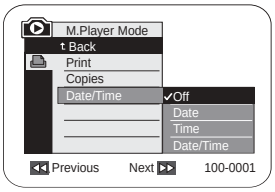
Setting the Date/Time Imprint Option

4. Move the **Menu selector** to the left or right to select **Date/Time**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select the **Date/Time** display type, then press the **Menu selector**.
   - Date/Time display type: Off, Date, Time, Date/Time

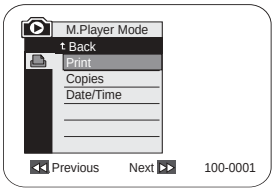
Printing Images

6. Move the **Menu selector** to the left or right to select **Print**, then press the **Menu selector**, and selected image files will be printed.

5



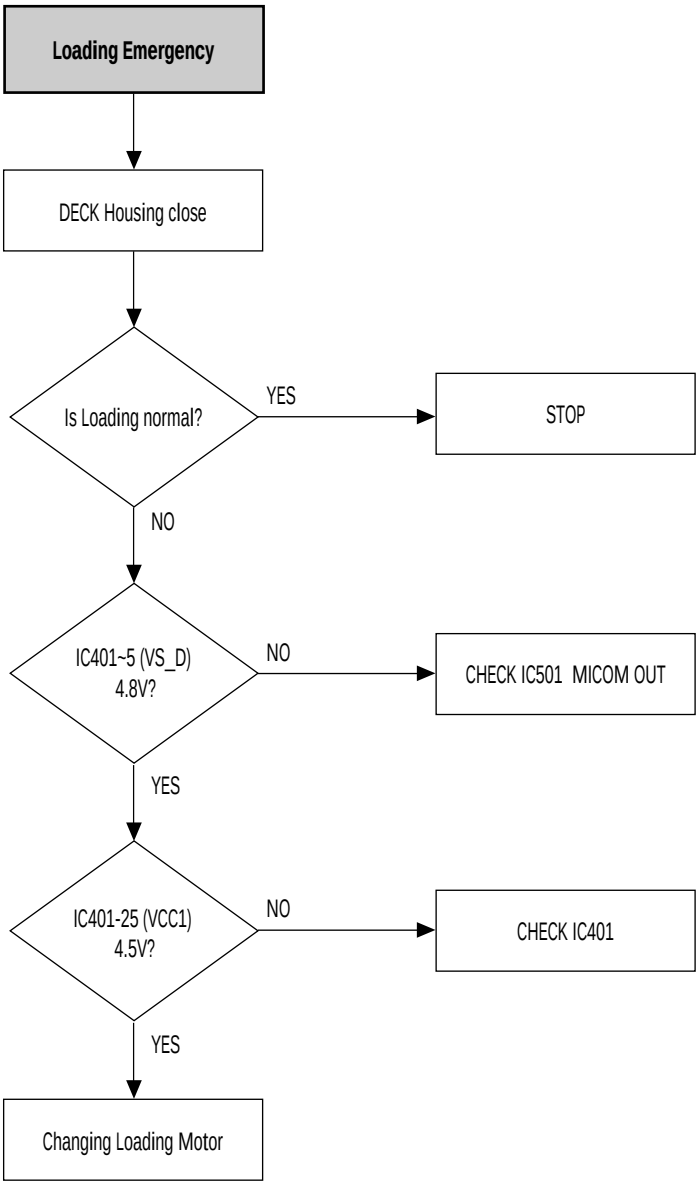
6

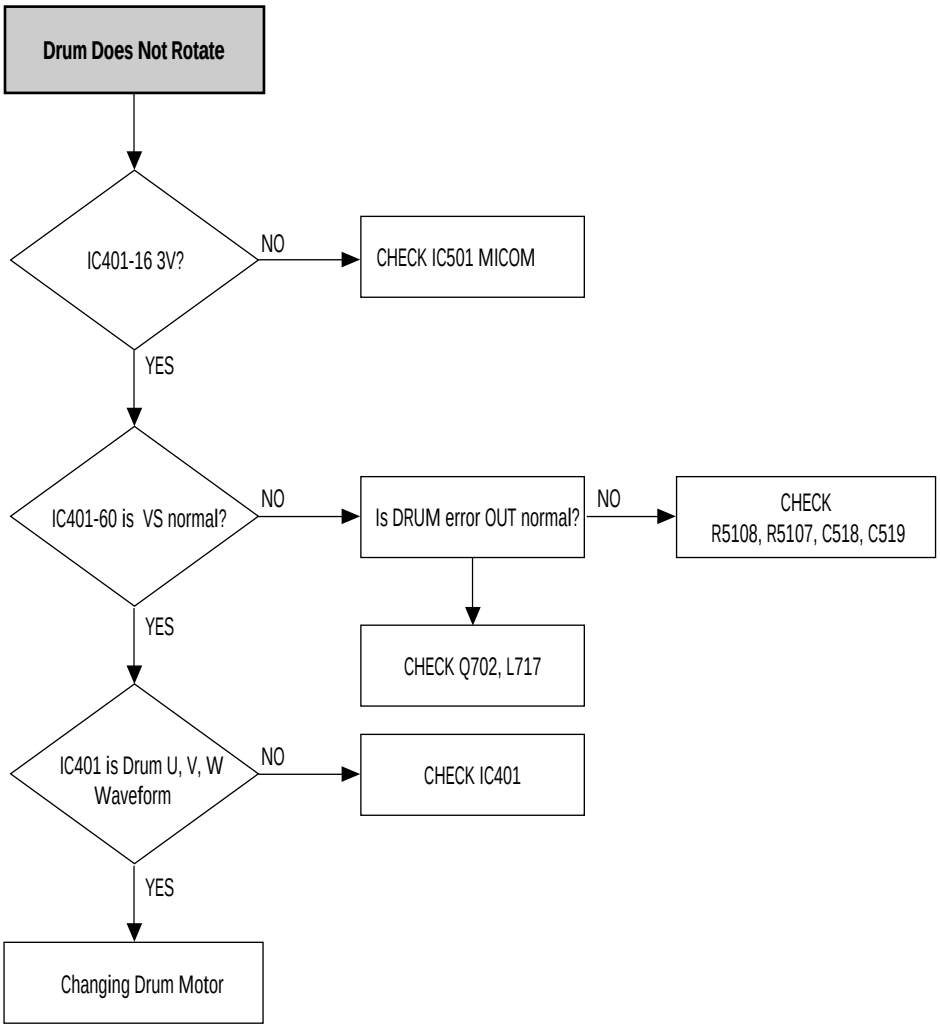


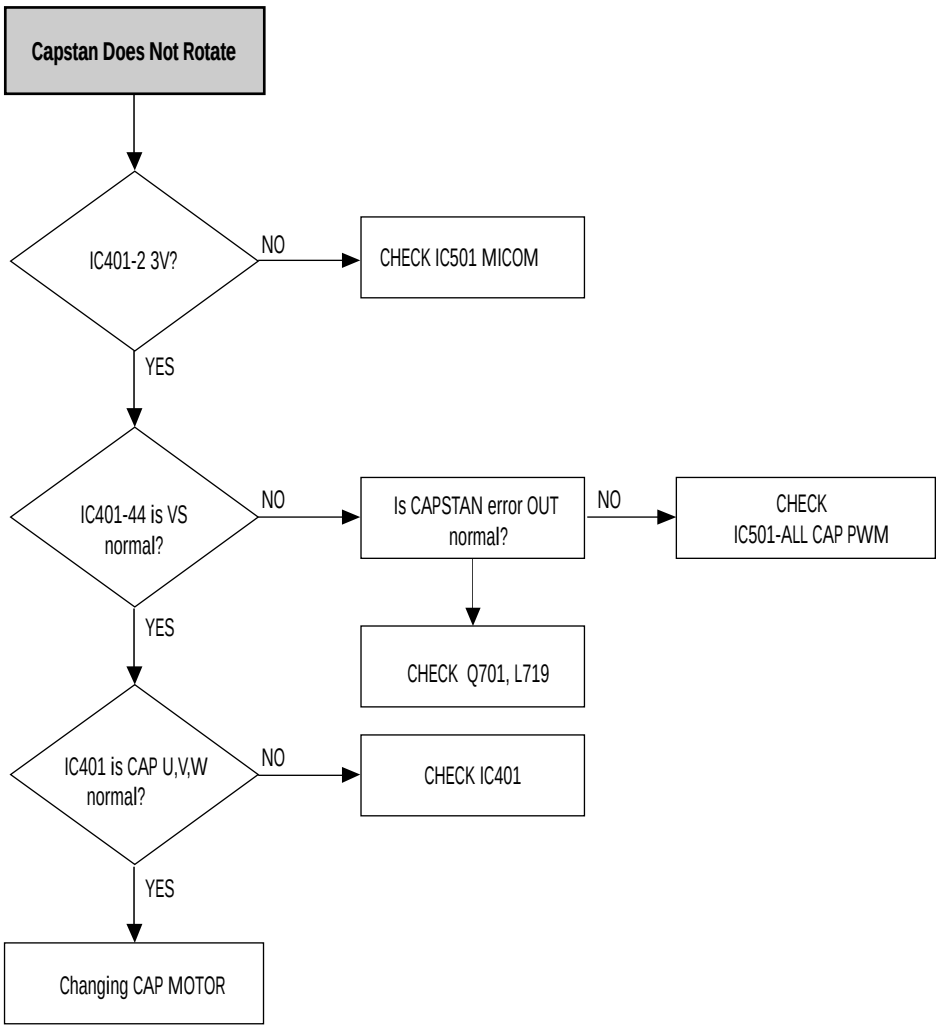
[Notes]

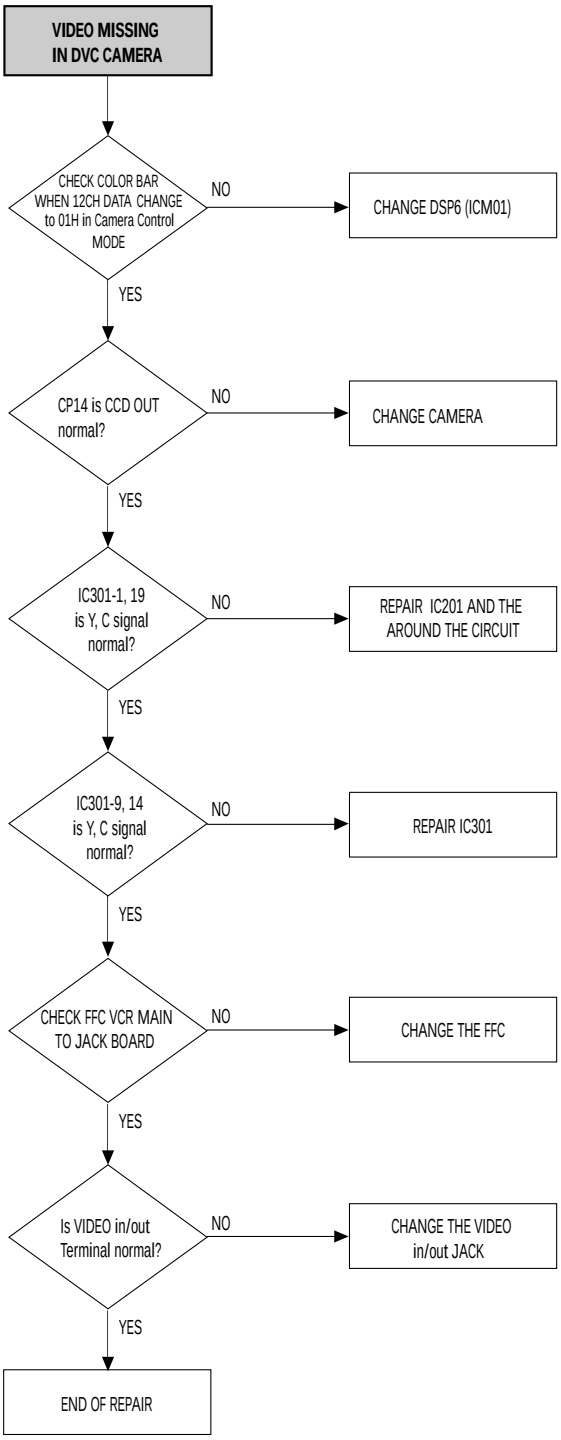
- The PictBridgeTM is a registered trademark of CIPA(Camera & Imaging Products Association), an image transfer standard
  developed by Canon, Fuji, HP, Olympus, Seiko Epson, and Sony.
- PictBridge supporting printers are commercially available.
- Use the USB cable provided with the Camera.
- Use the AC power adapter for your Camcorder during PictBridge Direct Printing.
  Turning your Camcorder off during the printing might damage data on the Memory card.
- Printing still images is supported. Motion clips are not available for printing.
- You can set various printing options depending on the printer.
- Please refer to the user's manual of the printer.

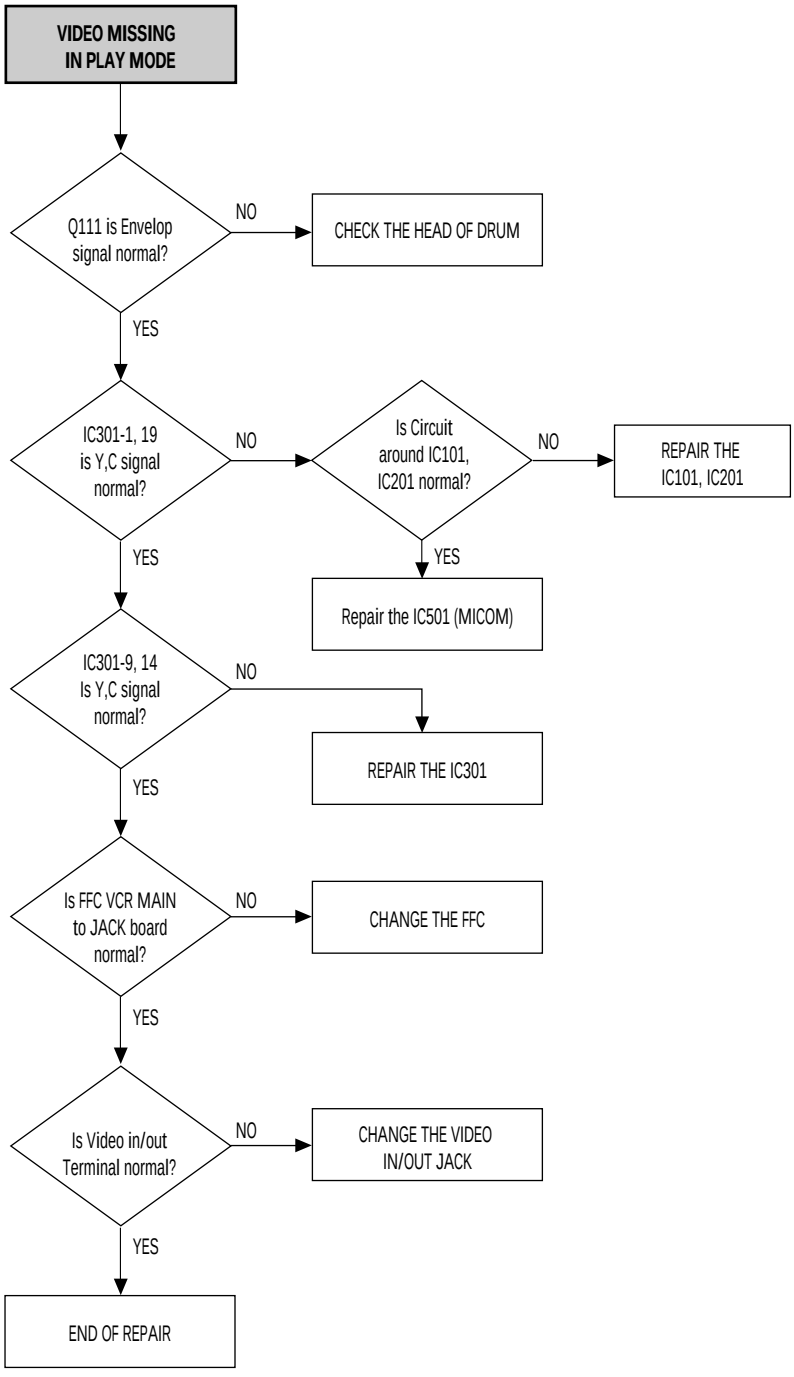
12. Troubleshooting

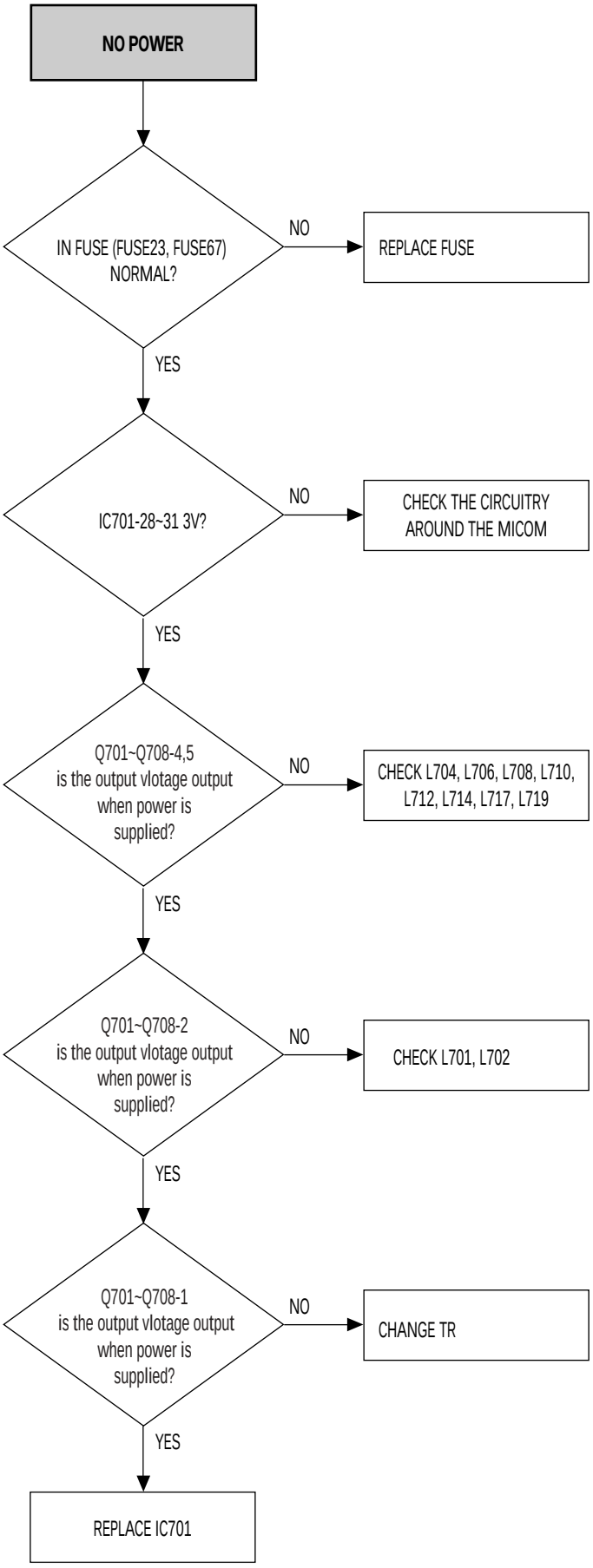


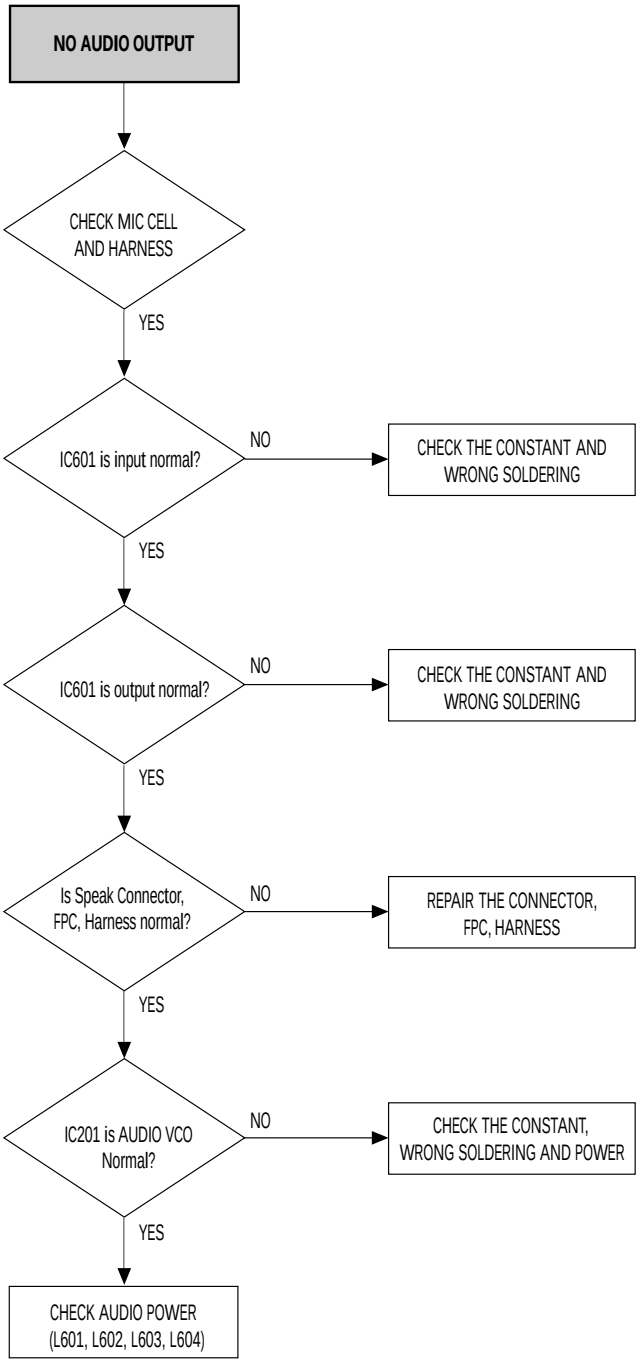

Drum Does Not Rotate
IC401-16 3V?
NO
CHECK IC501 MICOM
YES
IC401-60 is VS normal?
NO
Is DRUM error OUT normal?
NO
CHECK
R5108, R5107, C518, C519
YES
CHECK Q702, L717
IC401 is Drum U, V, W
Waveform
NO
CHECK IC401
YES
Changing Drum Motor


Capstan Does Not Rotate
IC401-2 3V?
NO
CHECK IC501 MICOM
YES
IC401-44 is VS normal?
NO
Is CAPSTAN error OUT normal?
NO
CHECK IC501-ALL CAP PWM
YES
CHECK Q701, L719
IC401 is CAP U,V,W normal?
NO
CHECK IC401
YES
Changing CAP MOTOR


VIDEO MISSING
IN DVC CAMERA
CHECK COLOR BAR
WHEN 12CH DATA CHANGE
to 01H in Camera Control
MODE
NO
CHANGE DSP6 (ICM01)
YES
CP14 is CCD OUT
normal?
NO
CHANGE CAMERA
YES
IC301-1, 19
is Y, C signal
normal?
NO
REPAIR IC201 AND THE
AROUND THE CIRCUIT
YES
IC301-9, 14
is Y, C signal
normal?
NO
REPAIR IC301
YES
CHECK FFC VCR MAIN
TO JACK BOARD
NO
CHANGE THE FFC
YES
Is VIDEO in/out
Terminal normal?
NO
CHANGE THE VIDEO
in/out JACK
YES
END OF REPAIR


VIDEO MISSING
IN PLAY MODE
Q111 is Envelop signal normal?
NO
CHECK THE HEAD OF DRUM
YES
IC301-1, 19 is Y,C signal normal?
NO
Is Circuit around IC101, IC201 normal?
NO
REPAIR THE IC101, IC201
YES
YES
Repair the IC501 (MICOM)
IC301-9, 14 Is Y,C signal normal?
NO
REPAIR THE IC301
YES
Is FFC VCR MAIN to JACK board normal?
NO
CHANGE THE FFC
YES
Is Video in/out Terminal normal?
NO
CHANGE THE VIDEO IN/OUT JACK
YES
END OF REPAIR


NO POWER
IN FUSE (FUSE23, FUSE67) NORMAL?
NO
REPLACE FUSE
YES
IC701-28~31 3V?
NO
CHECK THE CIRCUITRY AROUND THE MICOM
YES
Q701~Q708-4,5 is the output vlotage output when power is supplied?
NO
CHECK L704, L706, L708, L710, L712, L714, L717, L719
YES
Q701~Q708-2 is the output vlotage output when power is supplied?
NO
CHECK L701, L702
YES
Q701~Q708-1 is the output vlotage output when power is supplied?
NO
CHANGE TR
YES
REPLACE IC701


NO AUDIO OUTPUT
CHECK MIC CELL AND HARNESS
YES
IC601 is input normal?
NO
CHECK THE CONSTANT AND WRONG SOLDERING
YES
IC601 is output normal?
NO
CHECK THE CONSTANT AND WRONG SOLDERING
YES
Is Speak Connector, FPC, Harness normal?
NO
REPAIR THE CONNECTOR, FPC, HARNESS
YES
IC201 is AUDIO VCO Normal?
NO
CHECK THE CONSTANT, WRONG SOLDERING AND POWER
YES
CHECK AUDIO POWER (L601, L602, L603, L604)

13. Circuit Operating Description

13-1 Summary

13-1-1 Purpose

The document which sees with System Design specification of Digital Camcorder “SCD353 System“, it was hereafter maked for setting the direction of business propulsion by standardizing the system structure and Hard ware and the Soft ware plan specification.

13-1-2 Range

The low rank system which constitutes SCD353 is classified by Main PCB, Camera Lens Ass’y, Left Function Ass’y, Front Ass’y, Deck Ass’y, Rear Ass’y, etc..

13-2 Digital Camcorder Summary

13-2-1 Digital Camcorder Definition

Digital Camcorder is SAMPLING FREQUENCY 13.5MHZ (CHROMA 6.75MHZ) and 8Bit.
Adopted-child-ized VIDEO SIGNAL, SAMPLING FREQUENCY 48KHZ 16BIT and SAMPLING FREQUENCY DV FORMAT EWI of AUDIO SIGNAL of 32KHZ 12BIT is carried out. About 1/carries out DATA compression by 5. 6.35mm the thing which carry out record reproduction at TAPE and on which it crawls — the high definition of the level resolution of about 520 LINE(s), and reason tone quality of a PCM system PROTOCOL like IEEE1394, USB, or RS232C — PC or other DIGITAL equipments, and DATA transmission It is an equipment with the possible feature.

- High Resolution Picture Quality : About 520 LINE holigental
- High Sound Quality by PCM Method : Sampling Frequency 48khz 16bits
  Sampling Frequency 32khz 12bits
- EASY EDIT & EASY CONNECTION WITH PC& OTHER DV EQUIPMENT

13-2-2 Set System practical use

- Other A/V equipments and connection edits.
- DATA transmitting edit using PC and other DIGITAL equipments, IEEE1394, USB, and Protocol.
- They are JPEG / MPEG4 preservation DISPLAY to MEMORY STICK.

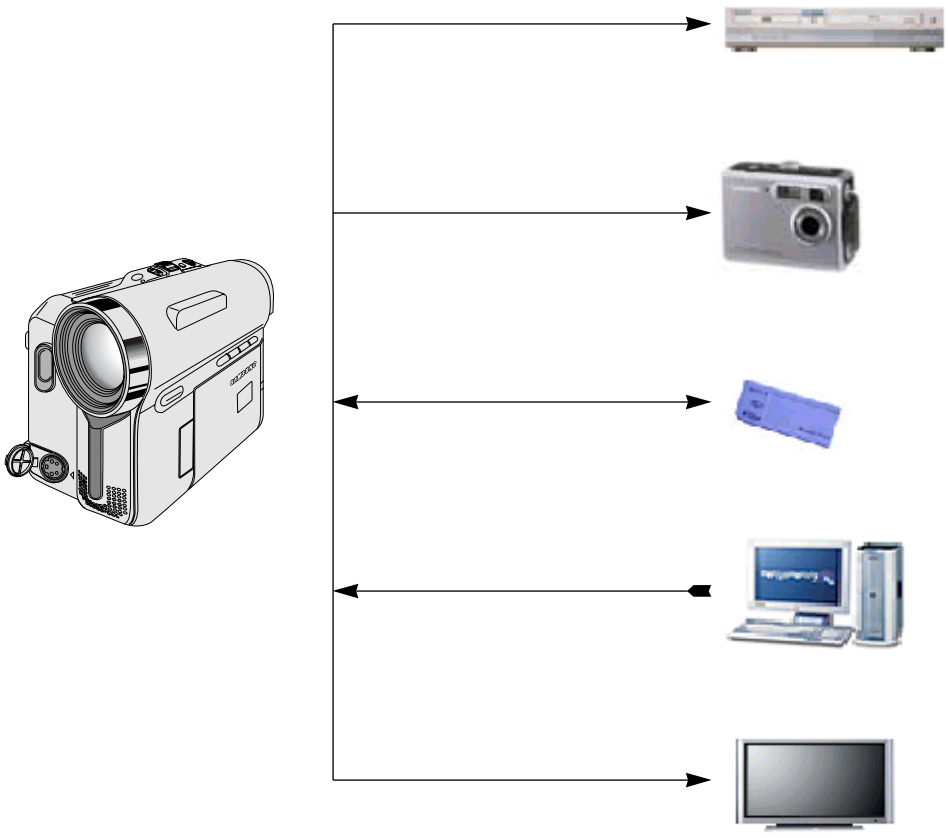


Fig. 13-1

13-3 Set Explanation

13-3-1 Consideration matter at the time of a design

(1) Environment condition: A standard is carried out to a CAMCORDER reliability examination rule (6CA-1001).

1) Operating Conditions

❶ Temperature : 0° ~ +40°

❷ Humidity : 10% ~ 80%

2) Storage Temperature

❶ Temperature : -20° ~ +60°

(2) DVC Pattery Format

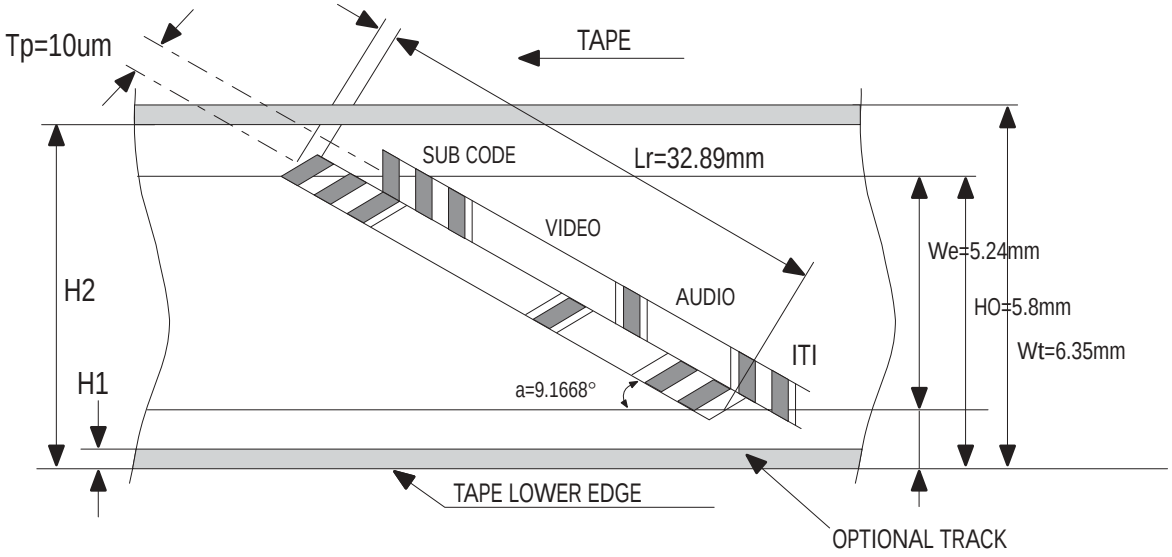


Fig. 13-2 DVC Pattery Format

(3) Sector Arrangement on helical track

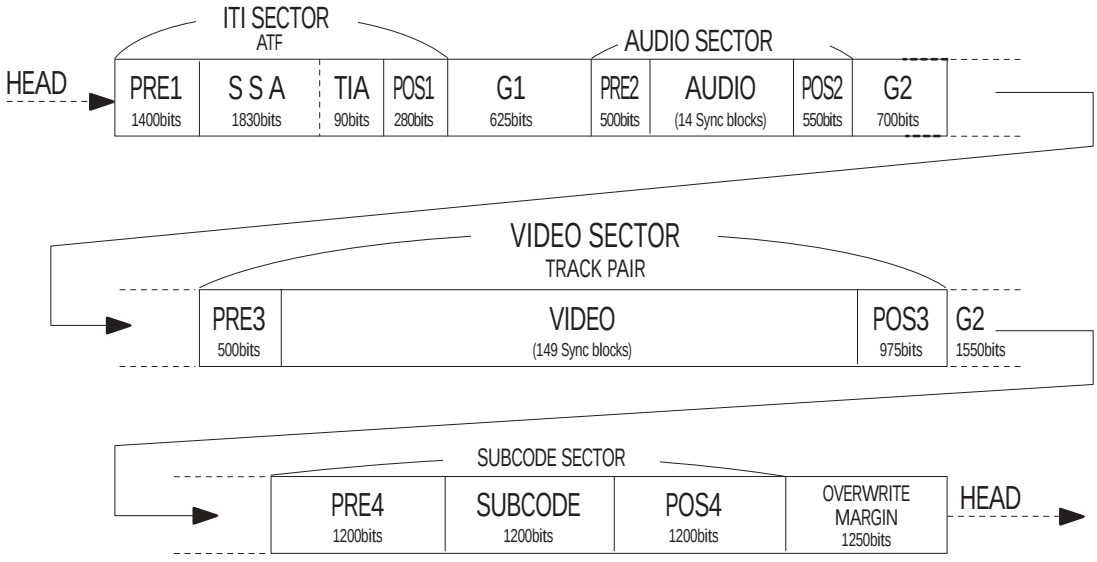


Fig. 13-3 Sector arrangement on helical track

(4) Ampling structue of ITU-R656 (4:2:2)

<Table 13-1 Sampling structure of ITU-R656 (4:2:2)>

NO	Item		525/60 System	625/50 System
1	SAMPLING frequency luminunse (Y) frequency chrominance (Cr,Cb,) frequency		13.5MHz 6.75MHz	
2	pixel/line luminunse (Y)frequency chrominance (Cr,Cb,) frequency		858 429	864 432
3	ACTIVE PIXEL / LINE luminunse (Y) frequency chrominance (Cr,Cb,) frequency		720 360	
4	ACTIVE LINE / FRAME		480	576
5	ACTIVE LINE No. FIELD1 FIELD2		23~262 23~310	285~524 335~622
6	quantum		Y, Cr, Cb, etc. are by carrying out, and they are 8bits straight lines quantum.	
7	A relation with level which serves as the analog picture signal level quantum	scale level: Y Cr,Cb	1~254 LEVEL 220 : WHITE LEVEL=235 BLACK LEVEL=16 LEVEL 225 : GRAY LEVEL =128	

(5) Audio Encoding mode

<Table 13-2 Audio Encoding mode>

Mode	Channel	Sampling Frequency	Quantization
48K mode	2	48KHz	16Bits linear
44.1K mode	-	44.1KHz	-
32K mode	-	32KHz	-
32k 4ch mode	4	32KHz	12Bits nonlinear

(6) Video Signal

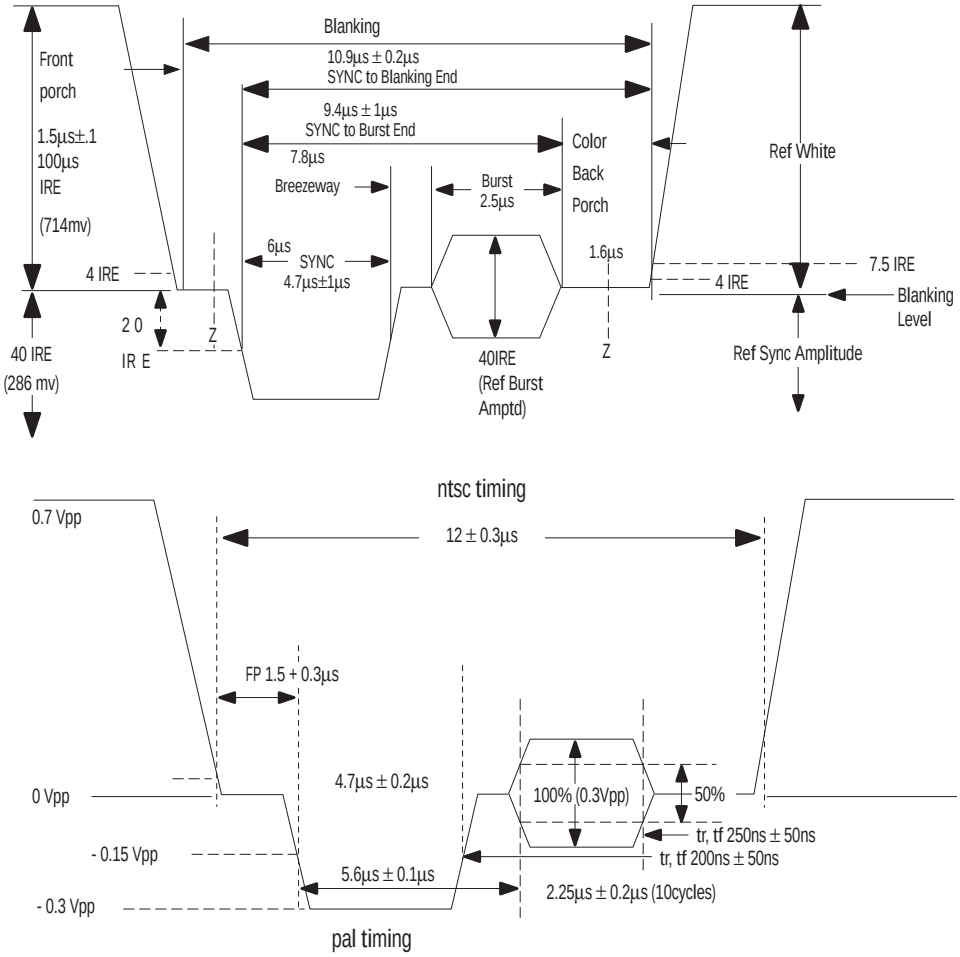


Fig. 13-4 Video Signal

(7) Safe standard

1) SAFETY

<Table 13-3 Safety>

UL1492	U.S.A. Standard for Audio and video products
CSA Std. C22.2	Canada Standard for Audio and video products
EN60065	Europe Standard for Audio and video products
GOST-R	Russia Standard for Audio and video products
Safety Assurance	Regulation No. 776 (Adapter only)

2) EMC

<Table 13-4 EMC>

FCC Part 15B	USA Standard (Class B Radio Frequency Devices)
EN 55013	Europe Standard (EMI Part of CE)
EN 55020 EN 61000-3-2 EN61000-3-3 EN61000-4-3	Europe Standard (EMS part of CE)
GOST R 51515-99	Russia Standard (EMI /EMS)
AS/NZS 1053	Australia Standard (EMI)
Domestic electromagnetic wave conformity registration	Domestic electromagnetic wave conformity registration

13-4 H/W demand matter

13-4-1 Main PCB H/W demand matter

Main PCB carries out record reproduction of the input of the signal into which the optical signal was electrically changed from CCD of CAMERA LENS ASS'Y, and an AUDIO signal by DV FORMAT at 6.35mm Tape.

It consists of circuits PCB which save or DISPLAY by JEPG and MPEG4 to MEMORY STICK. It constitutes from the CAMERA circuit BLOCK, SYSCON / SERVO BLOCK, DV_1_CHIP BLOCK, DC / DCBLOCK, PREAMP BLOCK, PRML BLOCK, and AUDIO / VIDEO I / F BLOCK.

13-4-2 Camera circuit Block H/W requirement

The CAMERA circuit BLOCK carries out CDS->AGC->10 Bits A / D conversion of Ccd_out Signal by which electronic conversion was carried out from Camera Lens Ass'y.

LUMINANCE and CHROMINANCE are transformed by ITU-R 656 Format.

It is made to output by DV-1 CHIP.

It was inputted into ITU-R 656 FORMAT from DV-1 CHIP. A DIGITAL EFFECT function (PB ZOOM, PB MOSAIC, PB MIRROR) is carried out for a VIDEO signal.

Signal inputted from CAMERA LENS or DV-1 CHIP MEMORY STICK preservation / DISPLAY is carried out by JPEG and MPEG4 FORMAT.

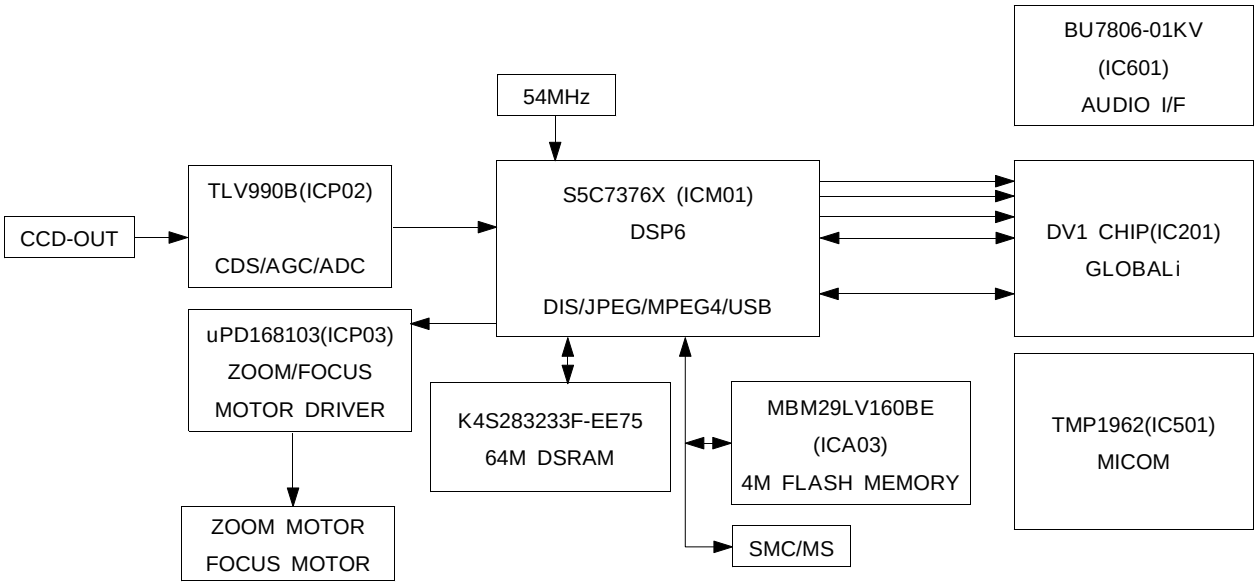


Fig. 13-5 Camera Circuit Block Diagram

13-4-3 SYSCON/SERVO Block H/W demand matter

At SYSTEM/SERVO BLOCK, it is TMP1962. It is each BLOCK at 32BIT 1MByte MICRO PROCESSOR.CONTROL(ing) IC and a circuit, MAIN CLOCK uses 13.5Mhz(es).
RTC use of the exception way for SUB CLOCK LITHIUM BATTERY 3V BACK UP functional execution is carried out. MICOM to PWM PULSE for MOTOR control and an ON/OFF CONTROL signal are inputted, and the phase and speed of DRUM of DD-10 DECK and CAPSTAN MOTOR are controlled by SERVO Block.
Moreover, input of the various kinds SENSOR of DECK (TOP/END, T/S REEL, Media Interface Connector SW, RECPROOF, CC LOCK Etc) is carried out, and micom is made to print out.
Made to REGULATION LOADING MOTOR 4.7V VS.

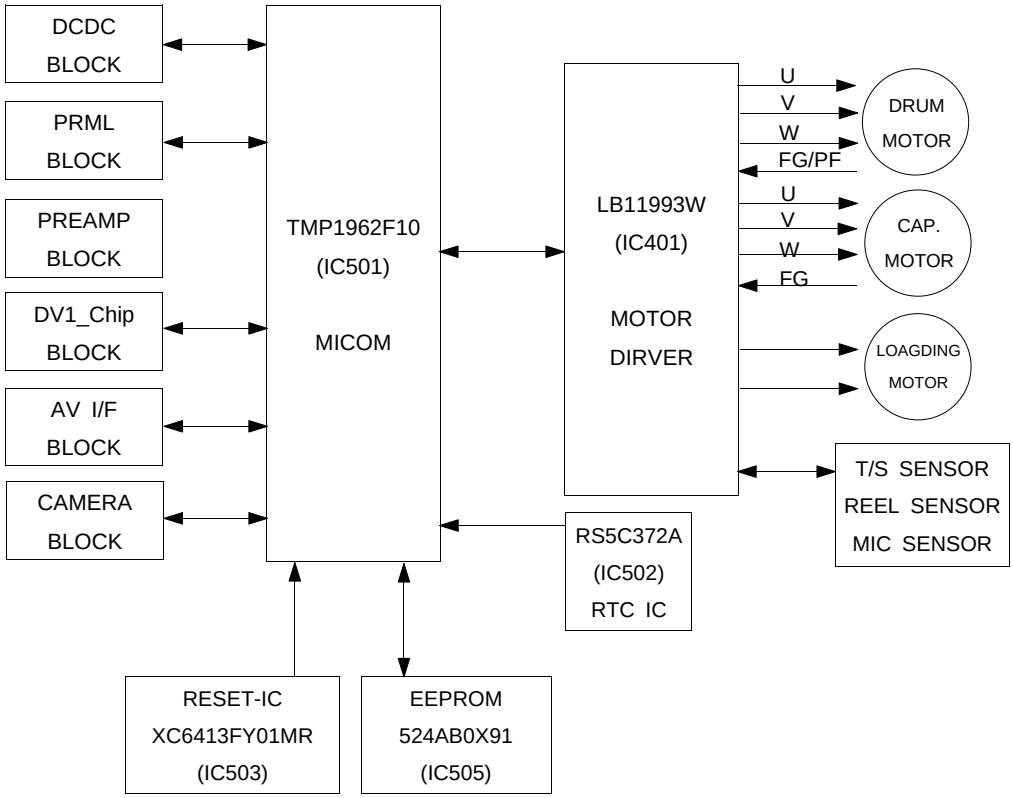


Fig. 13-6 VCR Circuit Block Diagram

13-4-4 DV-1 Chip Block H/W demand matter

DV_1 CHIP BLOCK is AV I/F BLOCK to a CAMERA circuit or a VIDEO signal at the time of Record MODE. Function . which inputs by ITU-R 656 FORMAT, SHUFFLING(s), and sends RECODING DATA by PREAMP Block.

At the time of TAPE reproduction, PRML BLOCK to 41.5 Mhz PB_CLK and PB_DATA are inputted, and ECC DECODING, DECOMPRESSION, and a DESHUFFLE function are carried out, and it is again inputted into the CAMERA circuit BLOCK after output VIDEO DATA by ITU-R 656 FORMAT, and is with VIDEO Y/C SIGNAL to AV I/F BLOCK. You have to carry out the DATA communication function which sent and carried out IEEE1394 PROTOCOL EWI of AUDIO CLOCK/DATA.

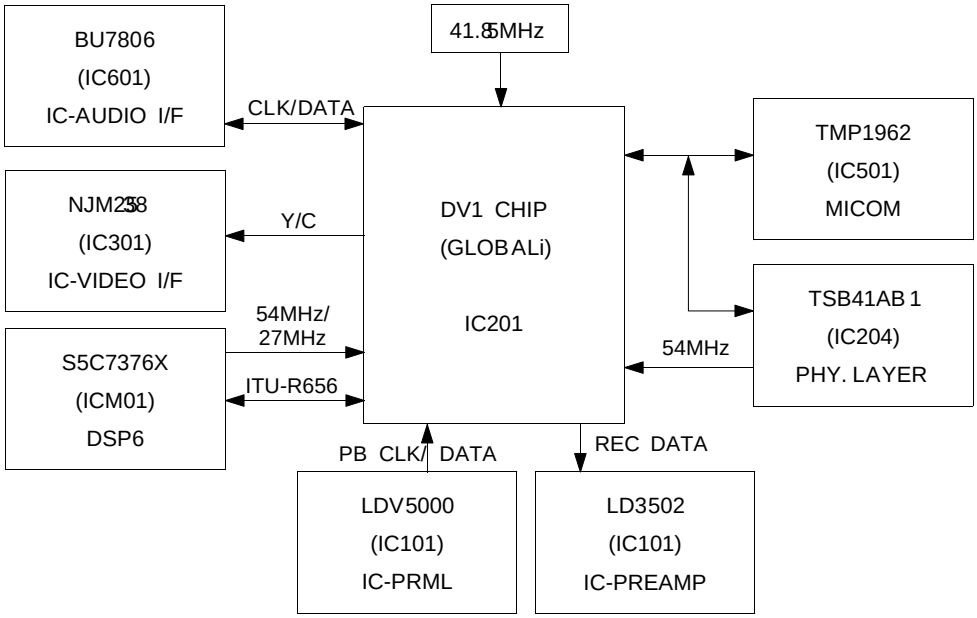


Fig. 13-7 DV-1 Chip Block Diagram

13-4-5 PRML Block H/W Demand matter

At PRML BLOCK, it is Control Signal of Micro Processor to Serial Enable / Data / Clock. In each mode star (SP-PB, LP gas-PB, SP-Forward / Reverse Search, LP gas-Search, SP-Slow, LP gas-slow etc) You must be made to carry out data control. moreover, Head S / W Pulse is inputted, the signal of the High section of an incoming signal (Envelope Output) and the Low section is divided at the time of reproduction, and signal processing is realized continuously as You have to become Control. In response to the control signal of Power Down from DV-1chip (Channel Block), PB-High, and Adaptive High, operation is stopped between Recording Time (Power Down), and normal signal processing operation is control(ed) between Playback Time. You have to perform Playback operation by making and supplying 41.85MHz PB Clock and PB Data by DV-1chip (Channel Block). When the unstable incoming signal by the 41.85MHz signal is inputted from a PREAMP way from DV-1chip (Channel Block) (Search Mode or tape damage etc), this signal and it is made to perform stable in reproduction operation. PREAMP to Differential Function(s), such as the supply receptacle AGC, Dropout, Analog qualizer, Digital Equalizer, 1+D, and Viterbi, are carried out for the reproduction print-out signal of input (DIP, DIN). PB data of 41.85Mbps(es) is supplied by DV-1chip (Channel Block). X2 process must be performed for 20.925MHz which is the highest frequency of a reproduction signal to a reproduction signal, and 41.85MHz PB clock must be supplied by DV-1chip (Channel Block). ATF Signal Processor is performed from a reproduction print-out signal, and it is ATF of F0 / F1 (465kHz) / F2 (697.5kHz).ATF Error Signal for coltrol is made.It supplies by Micro Processor and must be made to have to use by the object for Capstan Control.A two-sort power supply (3.3Vdc and 1.8Vdc) is supplied from DC / DC.
It uses with a power supply of operation and the standard power supply of block required for control of the signal for control with the exterior. Internal 1.8V regulator can be operated by Exterior option (pull up or pull down). At this time, the external country can be used in the 3.3V single country.

13-4-6 PREAMP Block H/W Demand matter

With PREAMP Block Amp_cs from DV-1chip (Channel Block) and a PB-High signal perform Recording and Playback operation.

In response to Recording Data of 3 Vp-p, after DRUM performing amplification operation, each signal must be printed out in Head S/W High and the Low section, and you have to perform Recording operation. Micro Processor to Head S/W Pulse is used, and it is Head S/W at the time of recording and playback operation.

You have to divide and output each signal in the High and Low section.

From DRUM After performing operation which amplifies 51dB of signals which became pick up, you have to output Differential signal output in PRML Block.

13-4-7 AV I/F Block H/W Demand matter

AUDIO/VIDEO I/F BLOCK carries out a 16 BITS AD/DA input-and-output INTERFACE function for an AUDIO signal. You have to form BEEP SOUND and a SPEAKER output signal at the time of KEY INPUT. COLOR OSD and a MENU DISPLAY function are carried out by the function.

Y/C SIGNAL is MIXING(ed) with an input OSD signal by DV-1 CHIP BLOCK, and VIDEO COMPOSITE SINGAL must be output by FRONT Block.

It is at ITU-R 656 about the VIDEO input SIGNAL inputted from VIDEO JACK or SUPER JACK. DV-1 CHIP It output by Block.

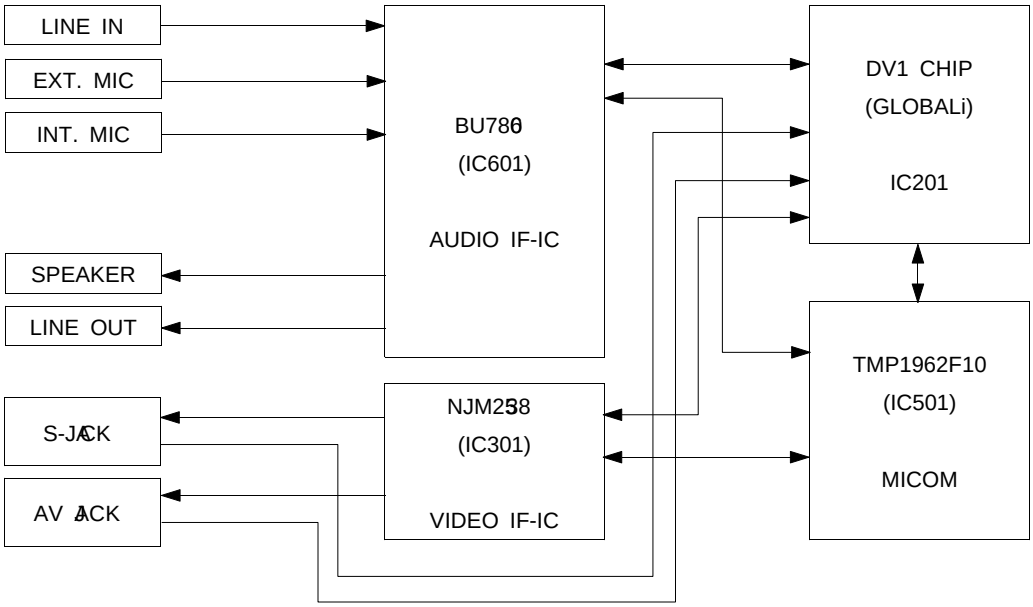


Fig. 13-8 AV Interface Block Diagram

13-4-8 DC/DC Block H/W Demand matter

DC/DC BLOCK receives BATTERY 7.4V or ADAPTER 8.4V, and is the use country according to BLOCK.The function supplied stably is carried out.

BLOCK another use power supply CAM5V, CAM15V, CAM-7.5V, and DIG3V, DIG1.8V, SS3.0V, SS5.0V, and SS1.8V LCD BL5V it carries V.LIGHT 5.0V

In response to DRUM ERROR and a CAPSTAN ERROR signal, you have to supply DRUM VS and CAPSTAN VS to a SERVO circuit from MICOM BLOCK.

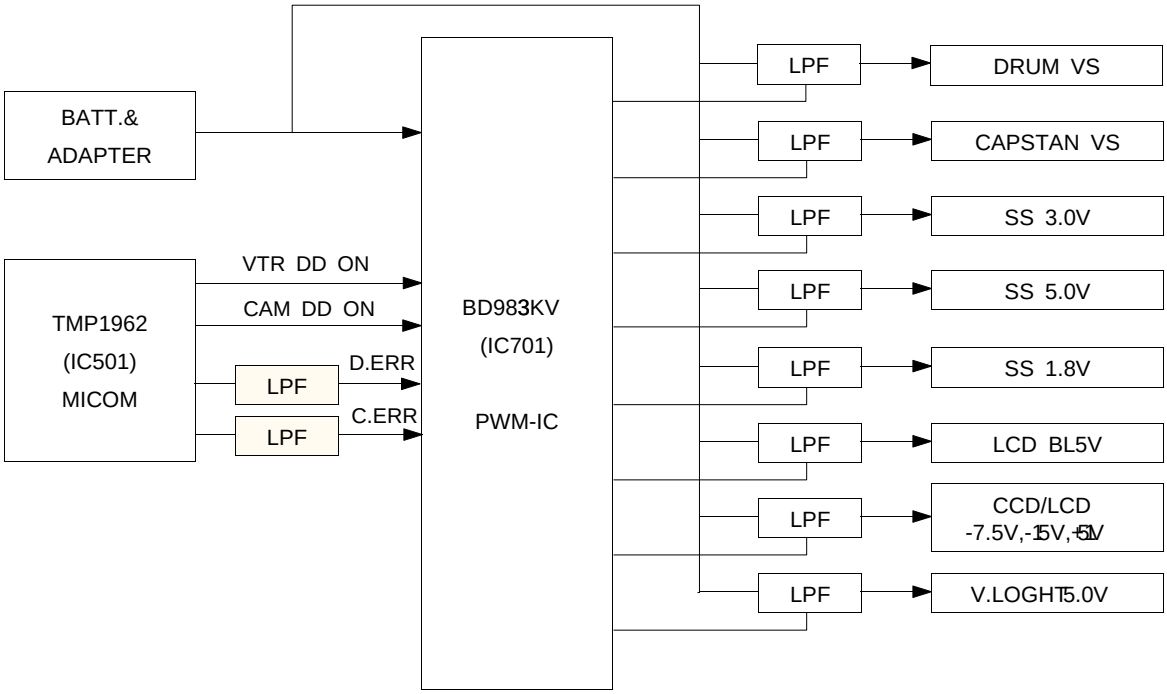


Fig. 13-9 DC/DC Block Diagram

13-4-9 CAMERA LENS ASS'Y H/W Demand matter

CAMEAR LENS ASS'Y is a function which makes an image for the light (Data) emitted with a photographic subject to a focal side (CCD). It carries out.

LENS It consists of 4part(s), such as Zoom, Relay, and Focus.

Although Front and Relay LENS are being fixed, Zoom and Focus Part must carry out the use drive of Zooming and the Auto Focusing harm Stepping Motor. It is automatic and light is made to adjust. Auto Iris is used for a sake.

It is generated for the regularity of Ccd, and a photographic subject's regularity.noise ingredient It loses.In order to intercept White Balance and infrared rays, you have to adopt Optical Low Pass Filter.

14. Deck Operating Description

14-1 Nomenclature

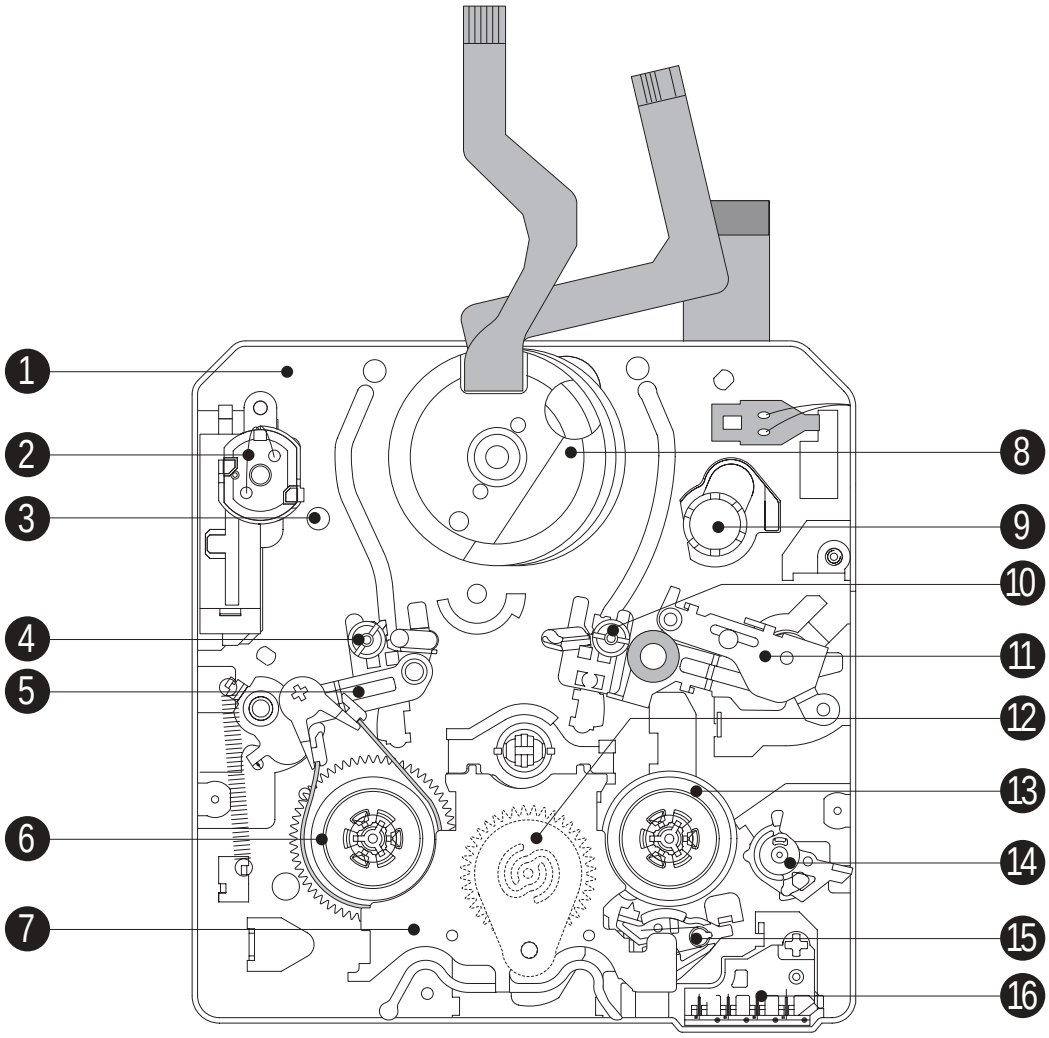


Fig. 14-1 Top View

❶ MAIN CHASSIS ASS'Y
❷ LOADING MOTOR ASS'Y
❸ P2 POST
❹ POLE BASE S ASS'Y
❺ ARM TENSION ASS'Y
❻ REEL DISK S ASS'Y
❼ COVER REEL
❽ DRUM ASS'Y
❾ MOTOR CAPSTAN ASS'Y
❿ POLE BASE T ASS'Y
⓫ PINCH REVIEW ASS'Y
⓬ IDLER ASS'Y
⓭ REEL DISK T ASS'Y
⓮ LEVER EJECT
⓯ BRAKE T ASS'Y
⓰ SWITCH MIC

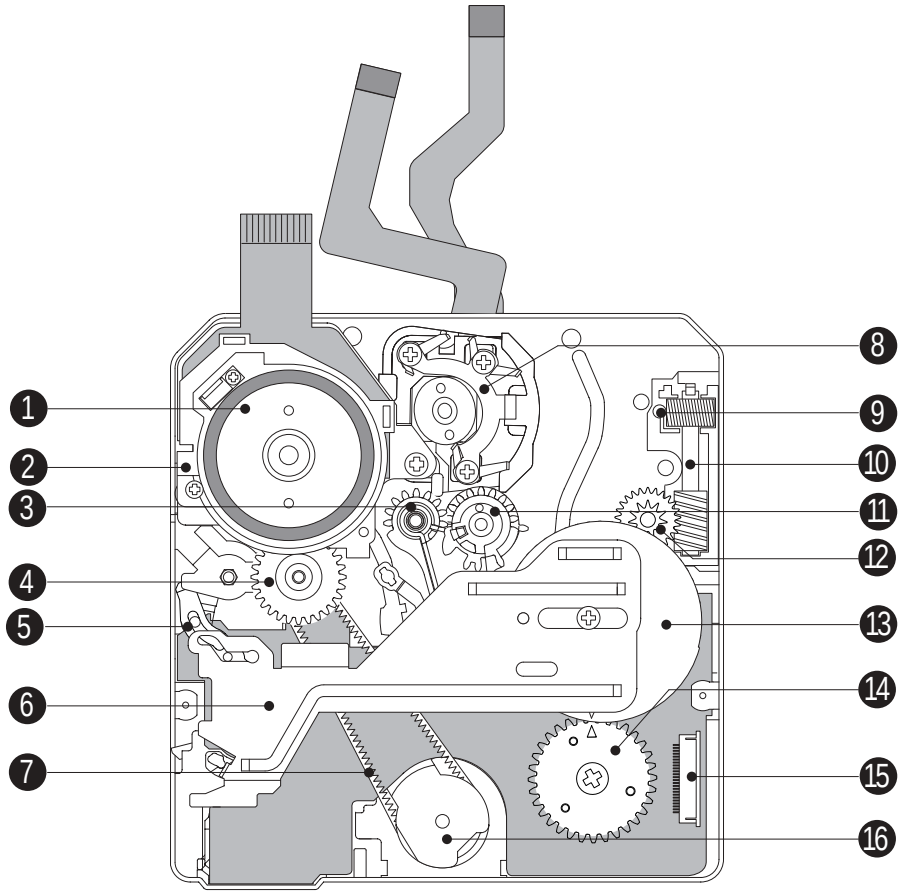


Fig. 14-2 Bottom View

❶ MOTOR CAPSTAN ASS'Y
❷ COVER CAPSTAN
❸ ASS'Y ARM LOADING T
❹ GEAR CAPSTAN
❺ LEVER REVIEW
❻ SLIDE MAIN
❼ PULLEY BELT TIMING
❽ PLATE SPRING BASE
❾ GEAR WORM MOTOR
❿ GEAR WORM WHEEL LOADING
⓫ ASSY ARM LOADING S
⓬ GEAR WHEEL
⓭ GEAR CAM MAIN
⓮ GEAR MODE SWITCH
⓯ ASSY PCB-DECK
⓰ GEAR PULLEY

14-2 Switch Modes

<Table 14-1 Switch Mode Code>

Modes	Signal 1	Signal 2	Signa 3	Rotation Angle of Gear Mode S/W	Mechanical state
EJECT	1	1	0	-51.25° ~ -31.75°	Open Housing
BL1	0	0	0		
UNLOAD	1	0	0		Standby Cassette Down
BL2	0	0	0		
LD 1	1	0	1	37° ~ 45°	
BL3	0	0	0		
LD 2	0	0	1	74.75° ~ 82.75°	Capstan Rotate and stop in loading mode
BL4	0	0	0		
STOP	0	1	1	131° ~ 139°	Stop
BL5	0	0	0		
PLAY	0	1	0	240.7° ~ 258.7°	In REC/PB/CUE/FF/PAUSE

* Fig. is based Unload Mode.

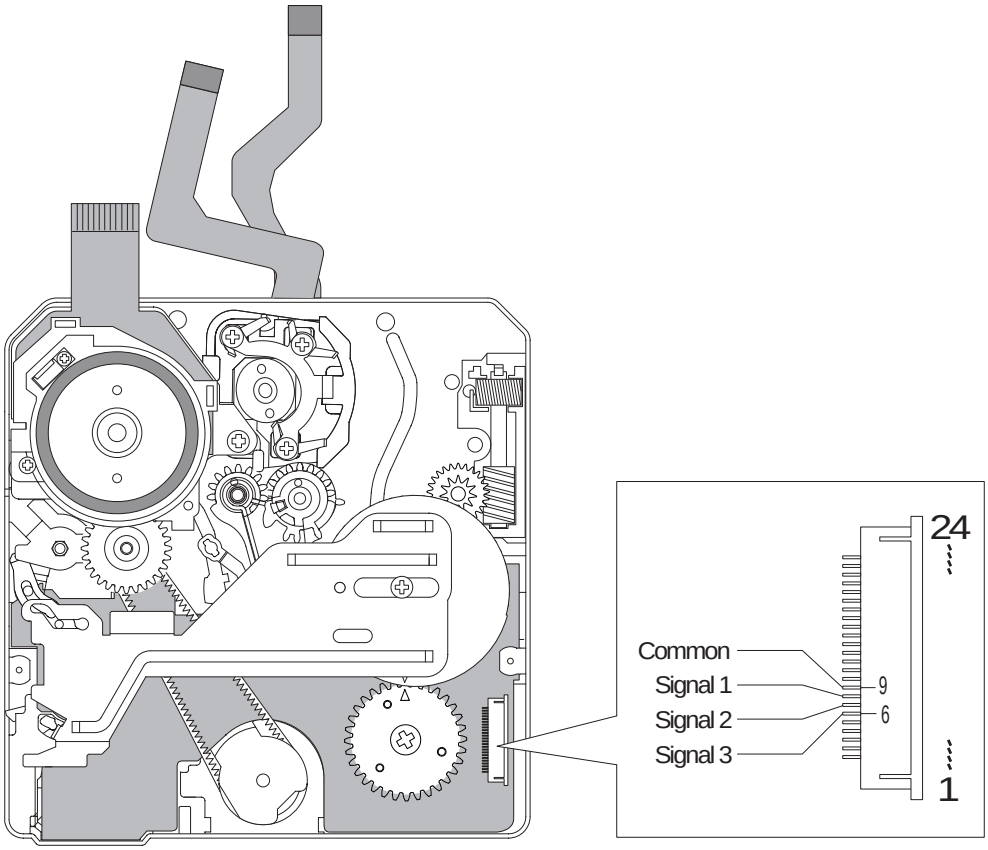


Fig. 14-3

14-3 Operation

14-3-1 Gear Connecting

1) Moter Loading ❶ rotates.
   (Gear Worm Motor ❷ γ Gear Worm Wheel Loading ❸)
2) Gear Wheel ❹ rotates.
3) Gear Cam Main ❺ rotates.
4) Gear Mode Switch ❻ rotates.

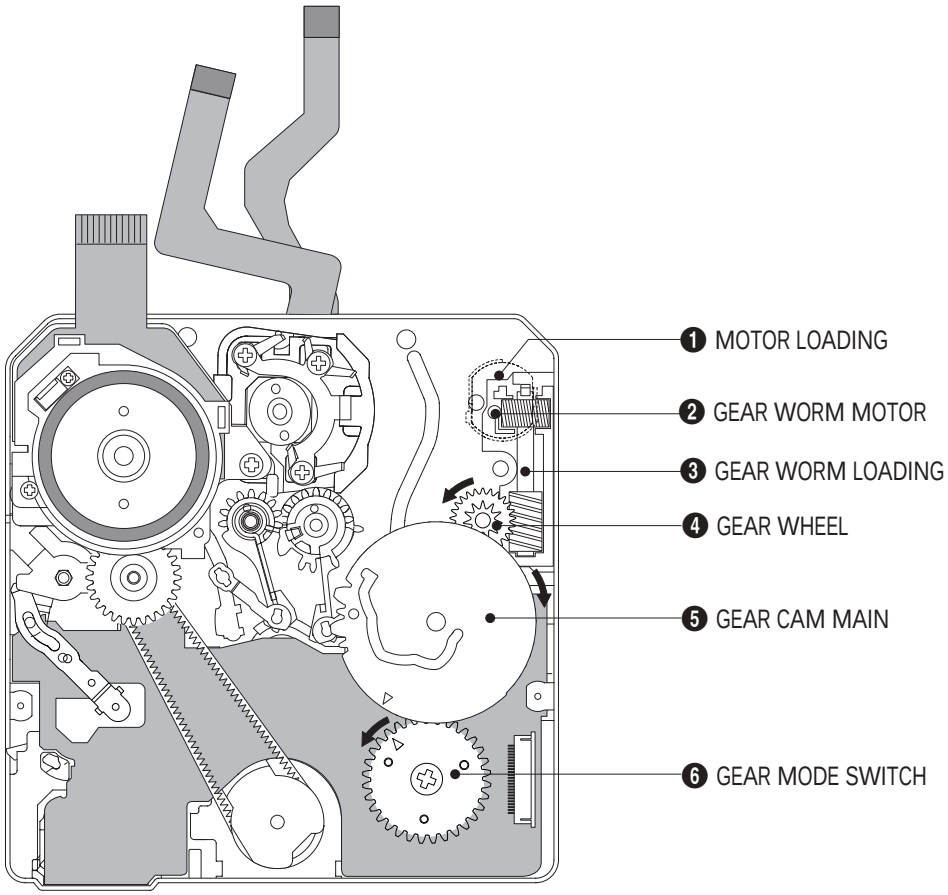


Fig. 14-4

14-3-2 Brake T

1) Brake T ❷ separated or contacted Gear shape of Brake T ❷ by rotate direction of Reel Disk T ❶.

Mode	Brake Main T	
	OFF	ON
EJECT		
UNLOAD		
LD 1		
LD 2		
STOP		
PB		

T Brake T operation (One-Way Operation)
- - - - - - - ; Reel T rotate direction (Clock direction)
——— ; Reel t rotate direction (Count Clock direction)

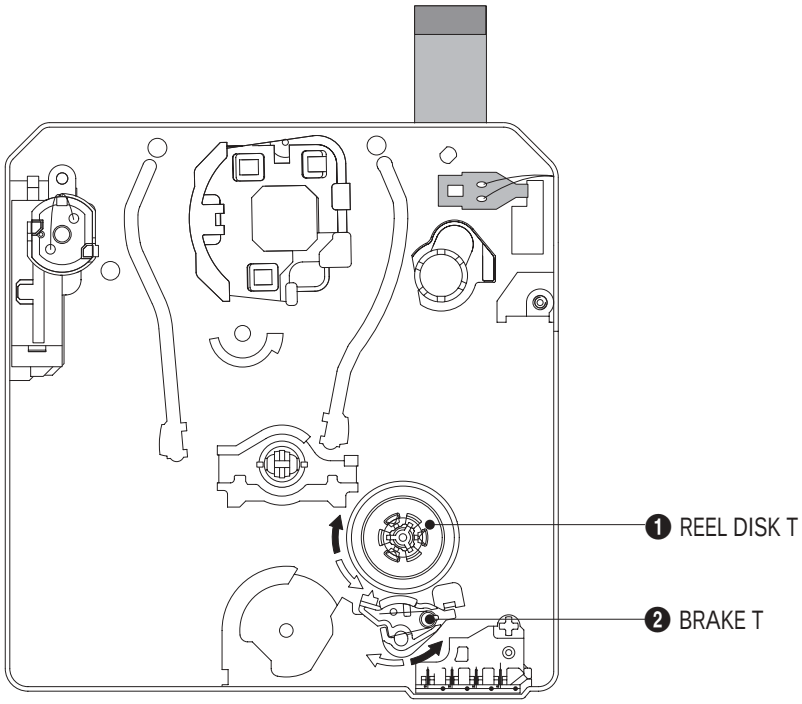


Fig. 14-5

14-3-3 Arm Tension

1) Motor Loading ❶ rotates.
2) Arm Tension ❷ rotates in direction of arrow.
   (By force of Spring Tension ❺ and guide of Cam Curve ❹ in Main Chassis ❸)
3) After Loading finished, Arm Tension ❷ is on state.

Mode	Arm Tension
	OFF ON
EJECT	
UNLOAD	
LD 1	
LD 2	
STOP	
PLAY	

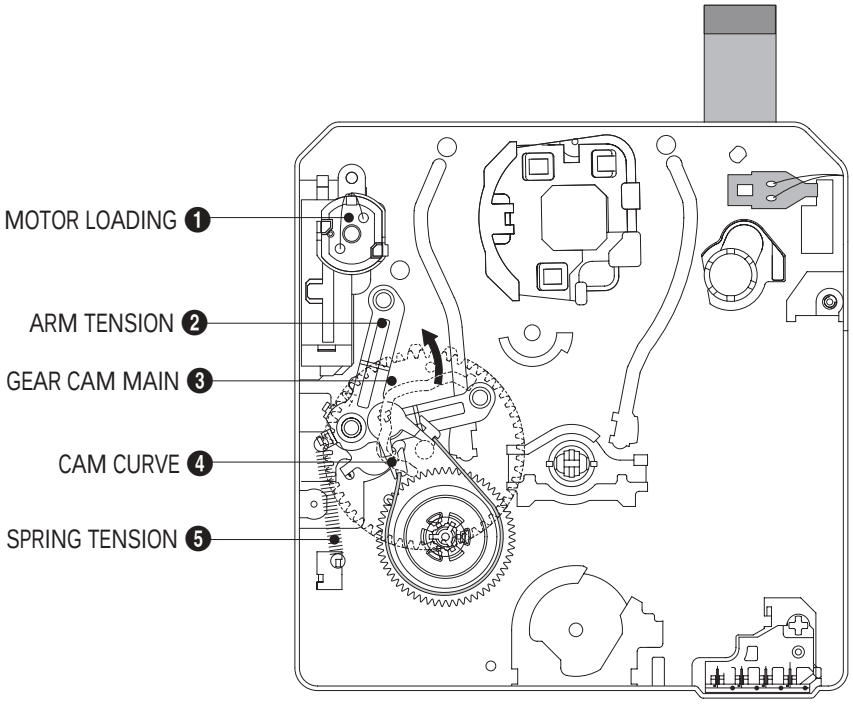


Fig. 14-6

14-3-4 Pinch Review Ass'y

1) Motor Loading ❶ rotates.
2) Slider Main ❹ slides in direction.
3) Ass'y Pinch Review ❸ rotates by Lever Review ❷.
4) Pinch Roller ❺ contacts shaft of Motor Capstan ❻.
5) Arm Review ❼ rotates in play mode.
6) Motor Loading ❶ rotates in reverse.
7) Slide Main ❹ moves in reverse direction of arrow.
8) Pinch Roller ❺ released from shaft of Motor Capstan ❻ by Lever Pinch.

Mode	Pinch Review
	OFF ON
EJECT	
UNLOAD	
LD 1	
LD 2	
STOP	
PLAY	

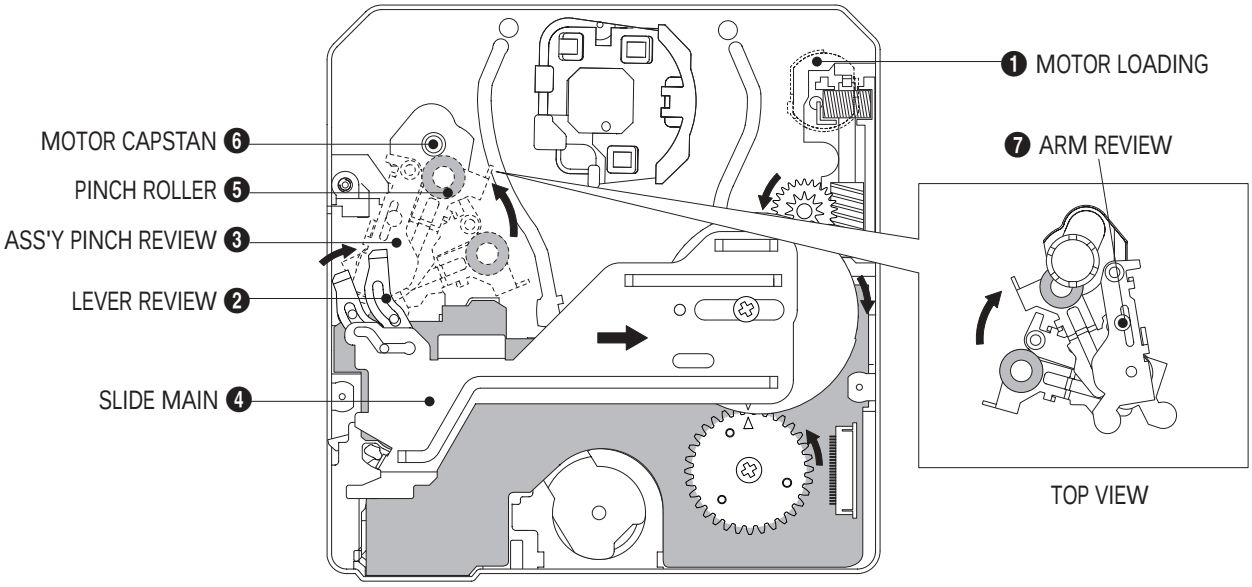


Fig. 14-7

14-3-5 Pole Base S, T

1) Motor Loading ❶ rotates.
2) Gear Wheel ❷ rotates.
3) Gear Cam Main ❸ rotates.
5) Gear Loading S ❹, T ❺ rotates.
6) Pole Base S ❻, T ❼ slide along Guide Rail ❽ of Main Chassis.
7) Pole Base S ❻, T ❼ attach to Stopper ❾ of Main Chassis.

Mode	Pole Base S, T
	OFF ON
EJECT	
UNLOAD	
LD 1	
LD 2	
STOP	
PLAY	

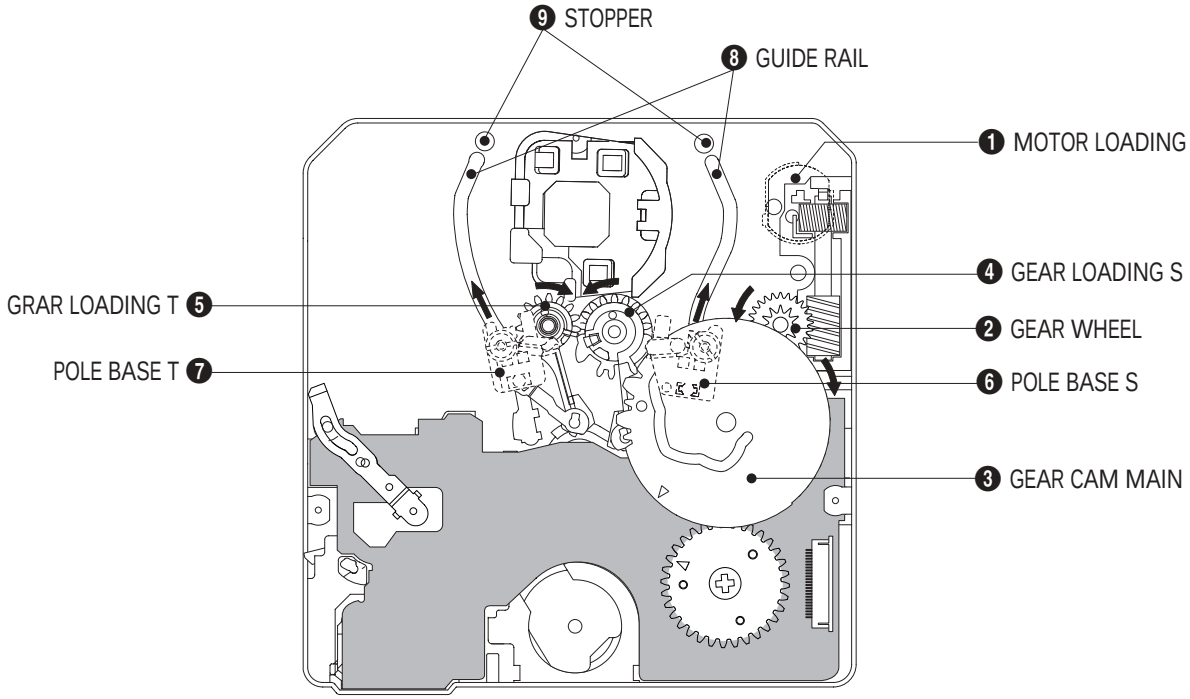


Fig. 14-8

14-3-6 Reel Driving

1) Motor Capstan ❶ rotates.
2) Gear Capstan ❷ rotates.
3) Pulley Belt Timming ❸ transmits rotation to Gear Pully ❹.
4) Gear Idler ❺ engages Reel Disk T ❻ or Reel Disk S ❻.
5) Reel Disk T ❻ or Reel Disk S ❼ rotates.

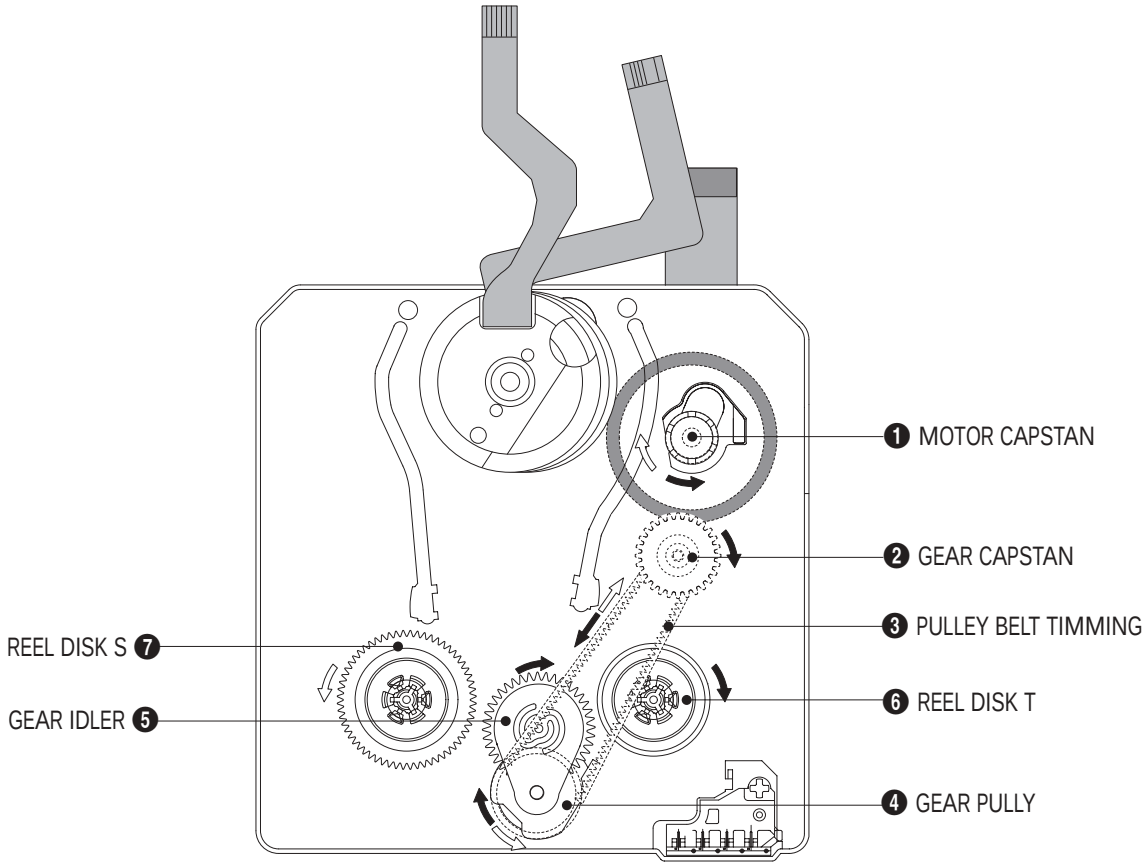
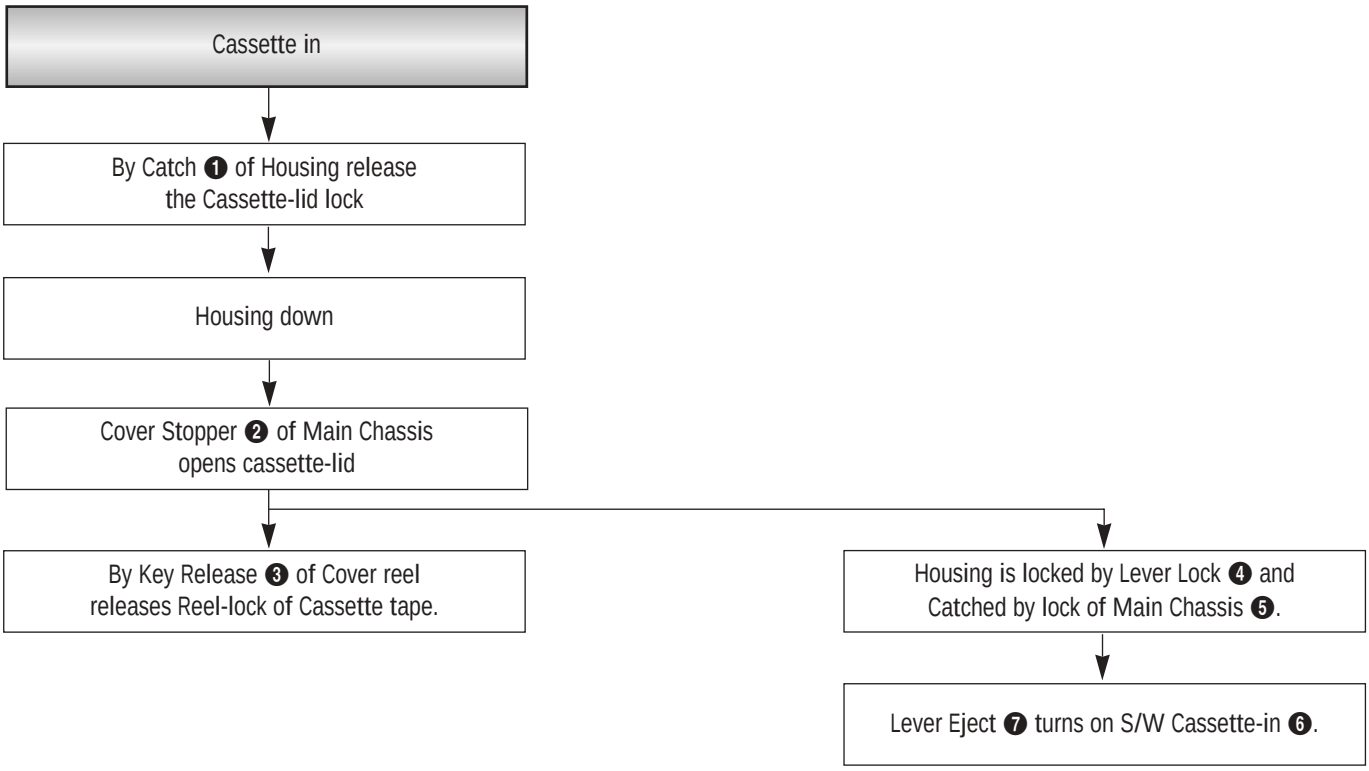


Fig. 14-9

14-4 Mode Transitions

14-4-1 Cassette in γ Cassette down


Cassette in
By Catch ❶ of Housing release the Cassette-lid lock
Housing down
Cover Stopper ❷ of Main Chassis opens cassette-lid
By Key Release ❸ of Cover reel releases Reel-lock of Cassette tape.
Housing is locked by Lever Lock ❹ and Catched by lock of Main Chassis ❺.
Lever Eject ❼ turns on S/W Cassette-in ❻.

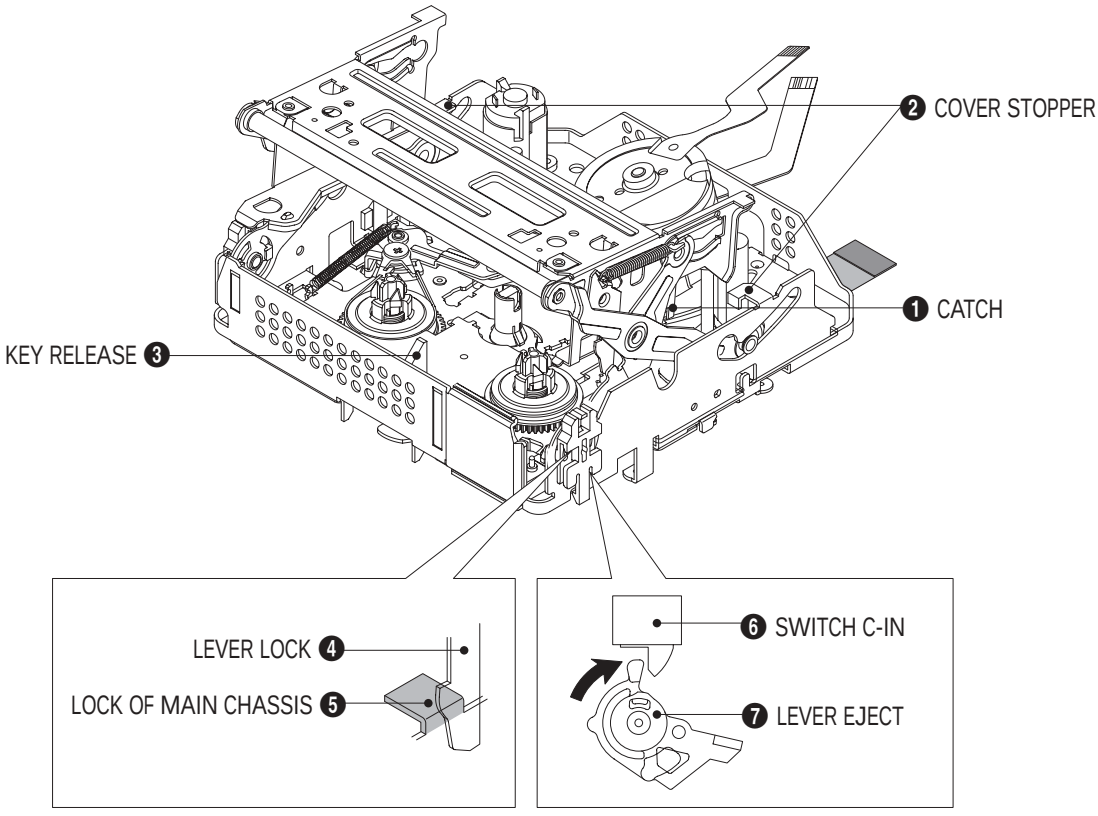
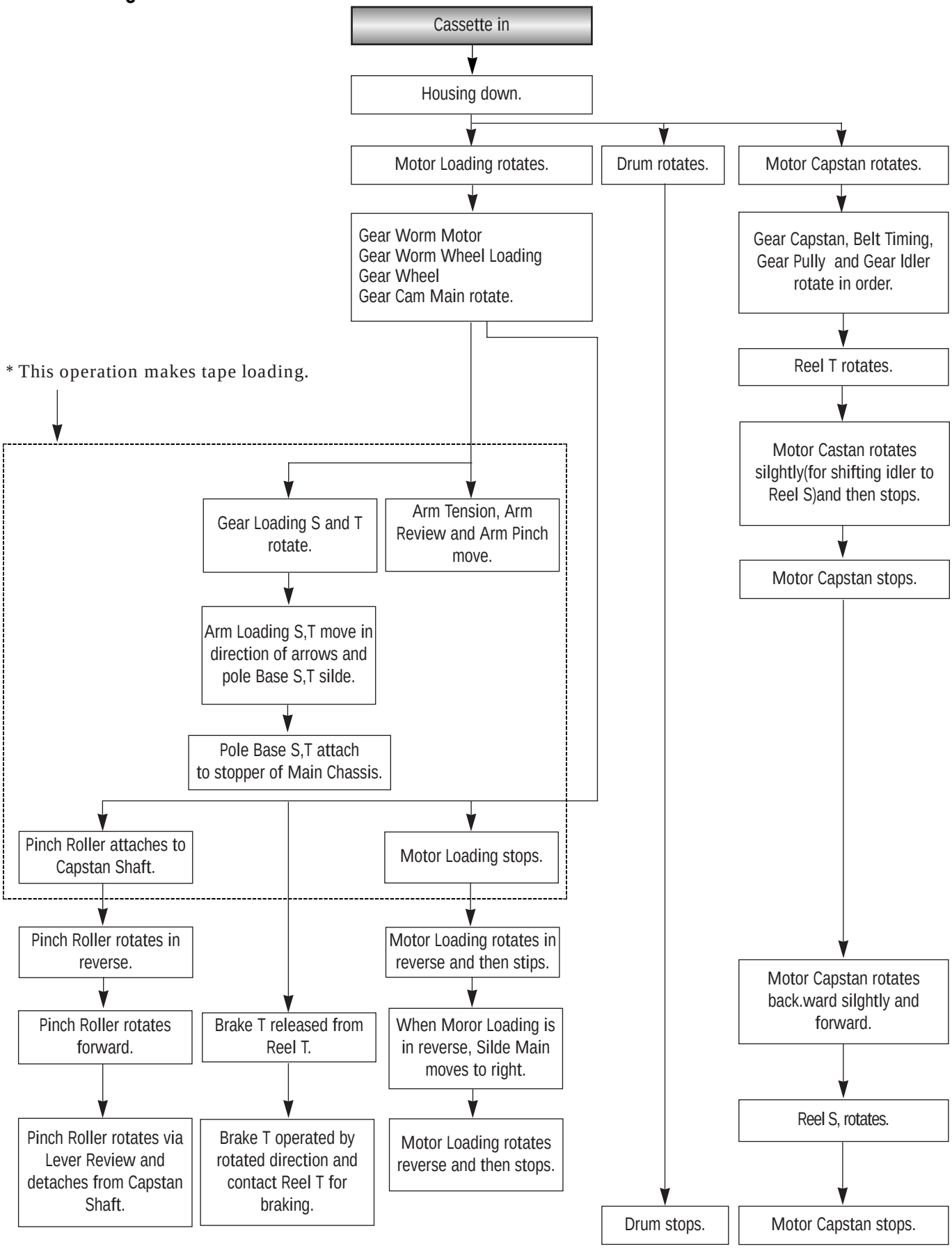
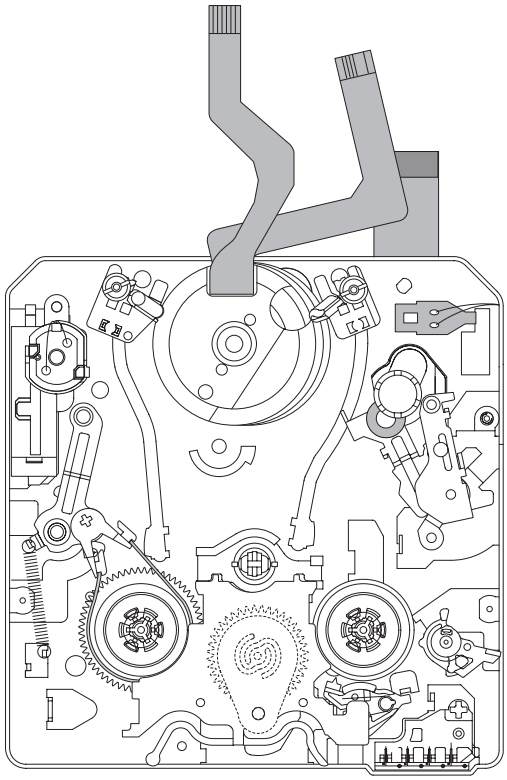


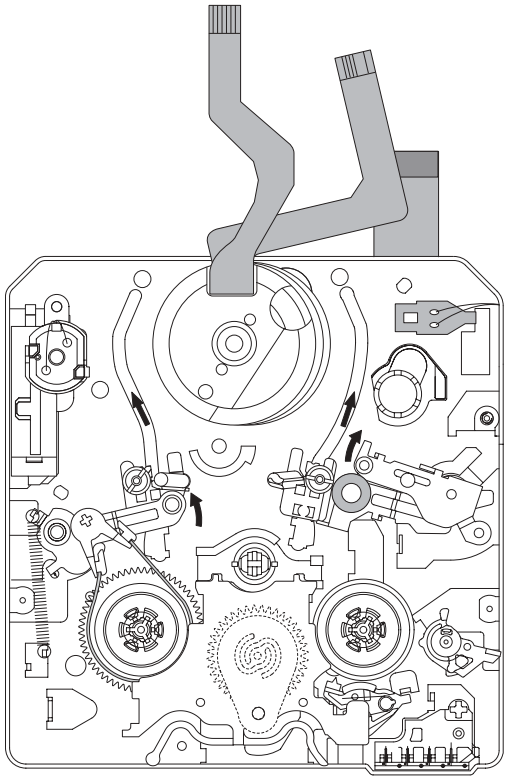
Fig. 14-10

14-4-2 Loading


Cassette in
Housing down.
Motor Loading rotates.
Drum rotates.
Motor Capstan rotates.
Gear Worm Motor
Gear Worm Wheel Loading
Gear Wheel
Gear Cam Main rotate.
Gear Capstan, Belt Timing, Gear Pully and Gear Idler rotate in order.
Reel T rotates.
Motor Castan rotates silghtly(for shifting idler to Reel S)and then stops.
Motor Capstan stops.
* This operation makes tape loading.
Gear Loading S and T rotate.
Arm Tension, Arm Review and Arm Pinch move.
Arm Loading S,T move in direction of arrows and pole Base S,T silde.
Pole Base S,T attach to stopper of Main Chassis.
Pinch Roller attaches to Capstan Shaft.
Motor Loading stops.
Pinch Roller rotates in reverse.
Motor Loading rotates in reverse and then stips.
Motor Capstan rotates back.ward silghtly and forward.
Pinch Roller rotates forward.
Brake T released from Reel T.
When Moror Loading is in reverse, Silde Main moves to right.
Reel S, rotates.
Pinch Roller rotates via Lever Review and detaches from Capstan Shaft.
Brake T operated by rotated direction and contact Reel T for braking.
Motor Loading rotates reverse and then stops.
Drum stops.
Motor Capstan stops.



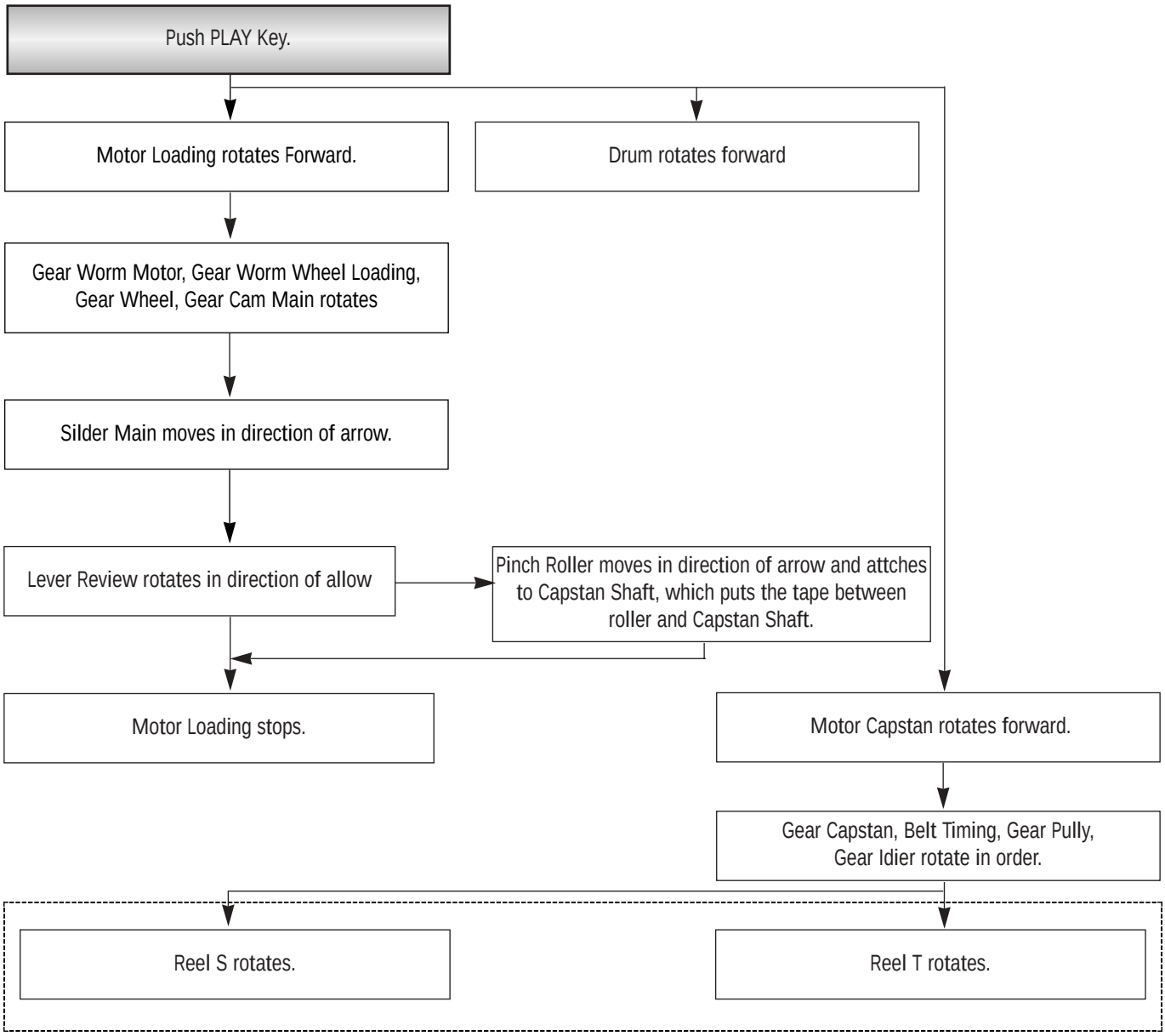
(Loading state)



(Unloading state)

Fig. 14-11

14-4-3 Stop γ Play


Push PLAY Key.
Motor Loading rotates Forward.
Drum rotates forward
Gear Worm Motor, Gear Worm Wheel Loading, Gear Wheel, Gear Cam Main rotates
Silder Main moves in direction of arrow.
Lever Review rotates in direction of allow
Pinch Roller moves in direction of arrow and attches to Capstan Shaft, which puts the tape between roller and Capstan Shaft.
Motor Loading stops.
Motor Capstan rotates forward.
Gear Capstan, Belt Timing, Gear Pully, Gear Idier rotate in order.
Reel S rotates.
Reel T rotates.

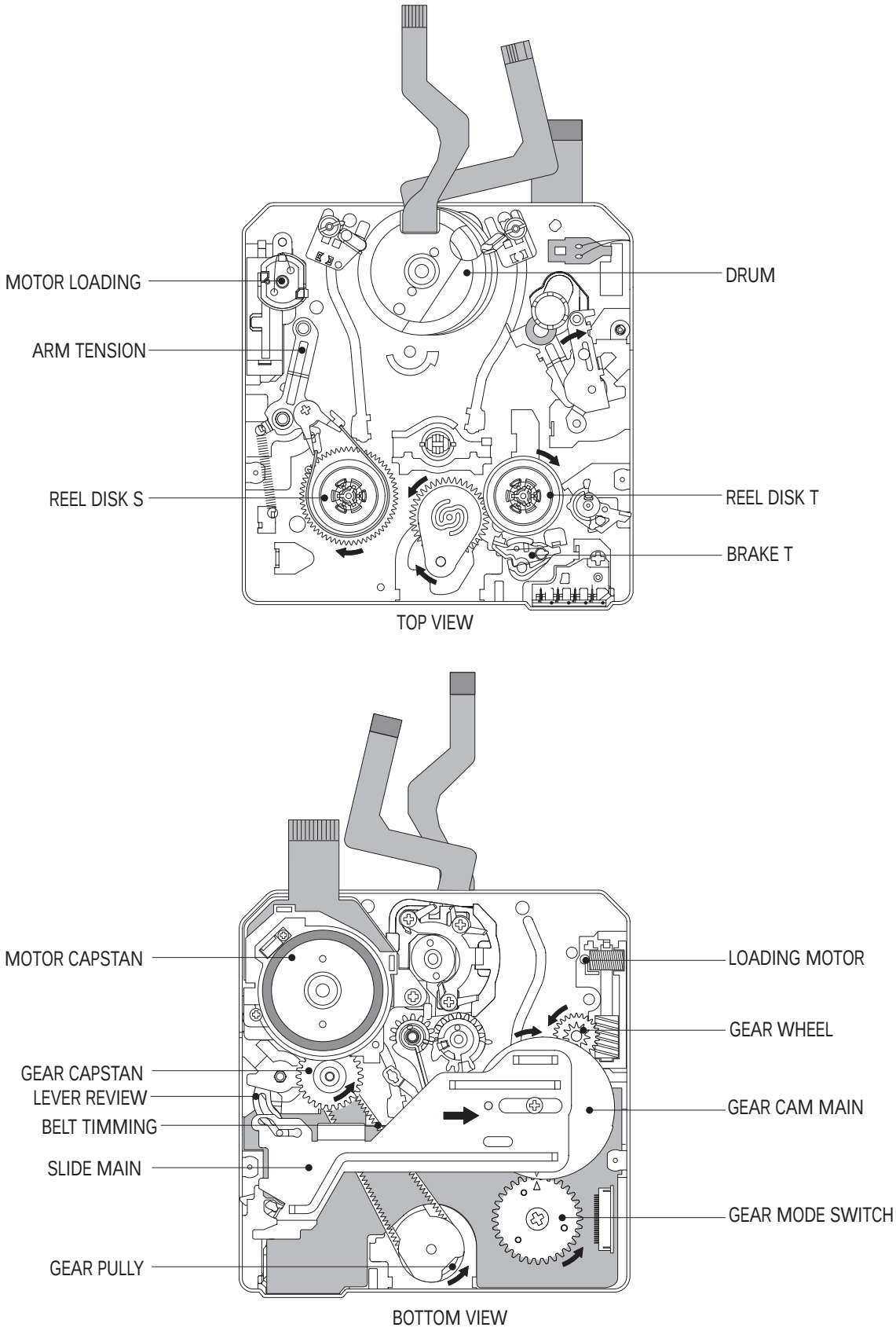
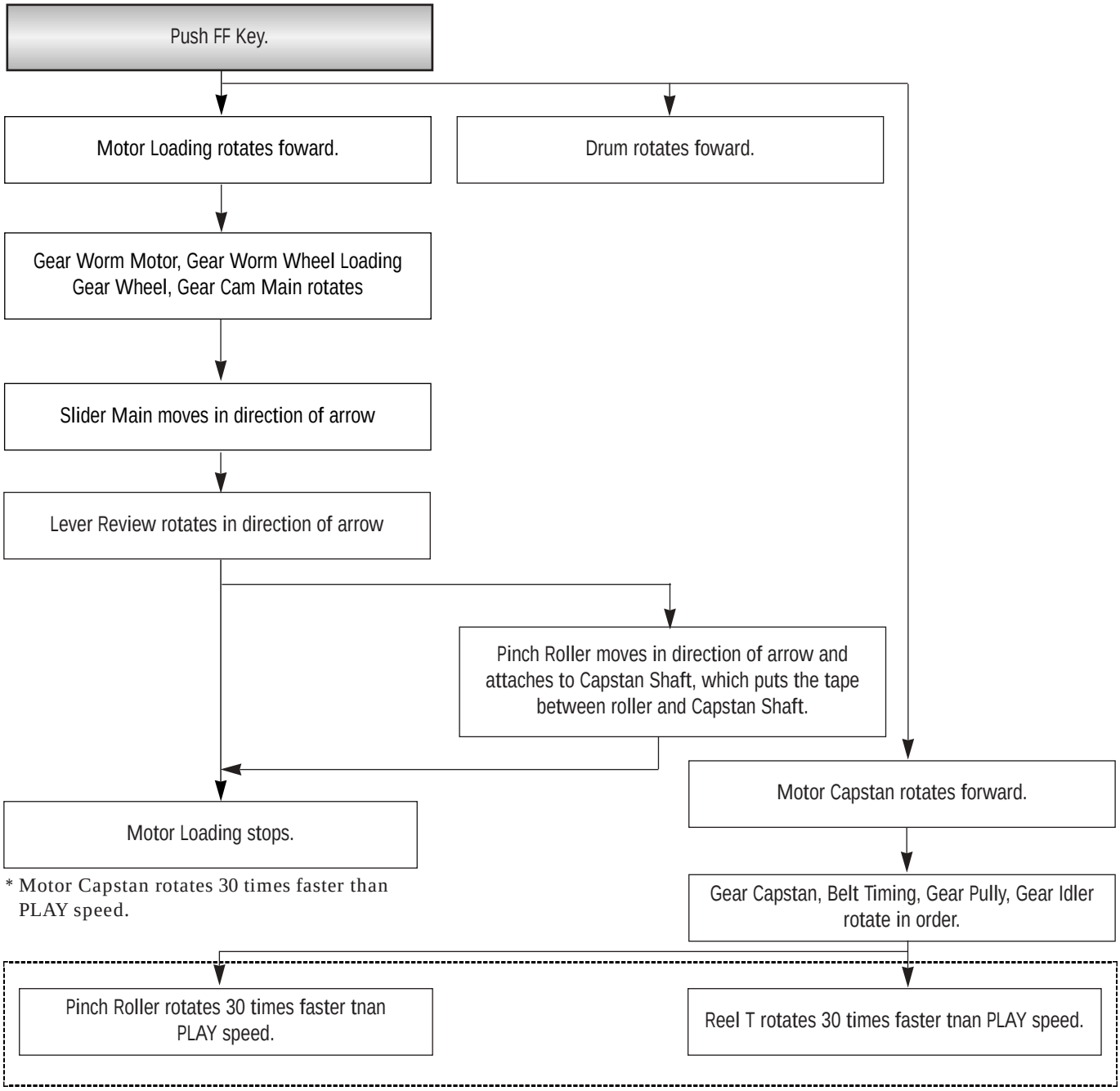

MOTOR LOADING
ARM TENSION
REEL DISK S
DRUM
REEL DISK T
BRAKE T
TOP VIEW
MOTOR CAPSTAN
GEAR CAPSTAN
LEVER REVIEW
BELT TIMMING
SLIDE MAIN
GEAR PULLY
LOADING MOTOR
GEAR WHEEL
GEAR CAM MAIN
GEAR MODE SWITCH
BOTTOM VIEW

Fig. 14-12

14-4-4 Stop γ FF


Push FF Key.
Motor Loading rotates foward.
Drum rotates foward.
Gear Worm Motor, Gear Worm Wheel Loading Gear Wheel, Gear Cam Main rotates
Slider Main moves in direction of arrow
Lever Review rotates in direction of arrow
Pinch Roller moves in direction of arrow and attaches to Capstan Shaft, which puts the tape between roller and Capstan Shaft.
Motor Capstan rotates forward.
Motor Loading stops.
* Motor Capstan rotates 30 times faster than PLAY speed.
Gear Capstan, Belt Timing, Gear Pully, Gear Idler rotate in order.
Pinch Roller rotates 30 times faster tnan PLAY speed.
Reel T rotates 30 times faster tnan PLAY speed.

* This operation feeds tape 30 times faster than PLAY speed.

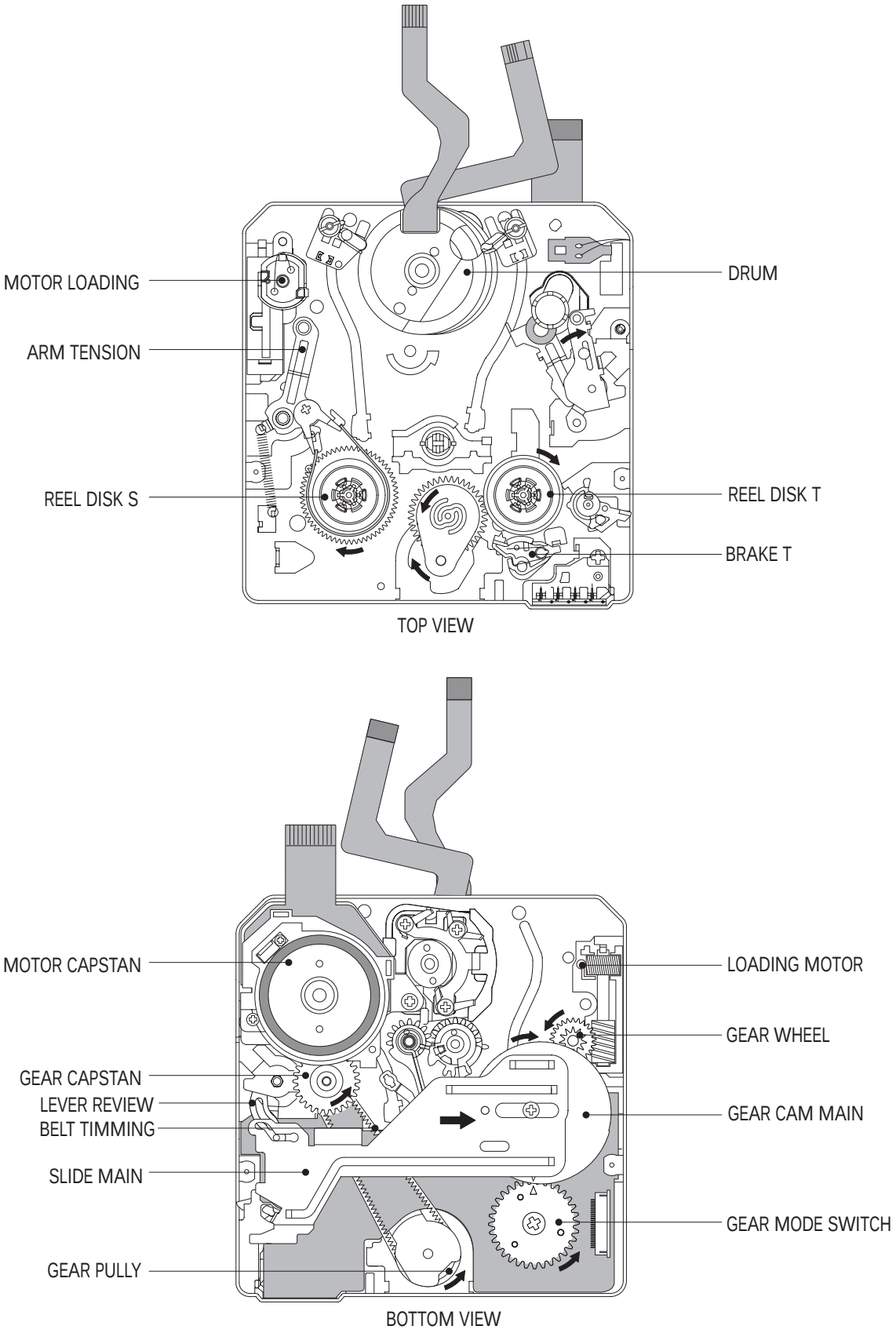
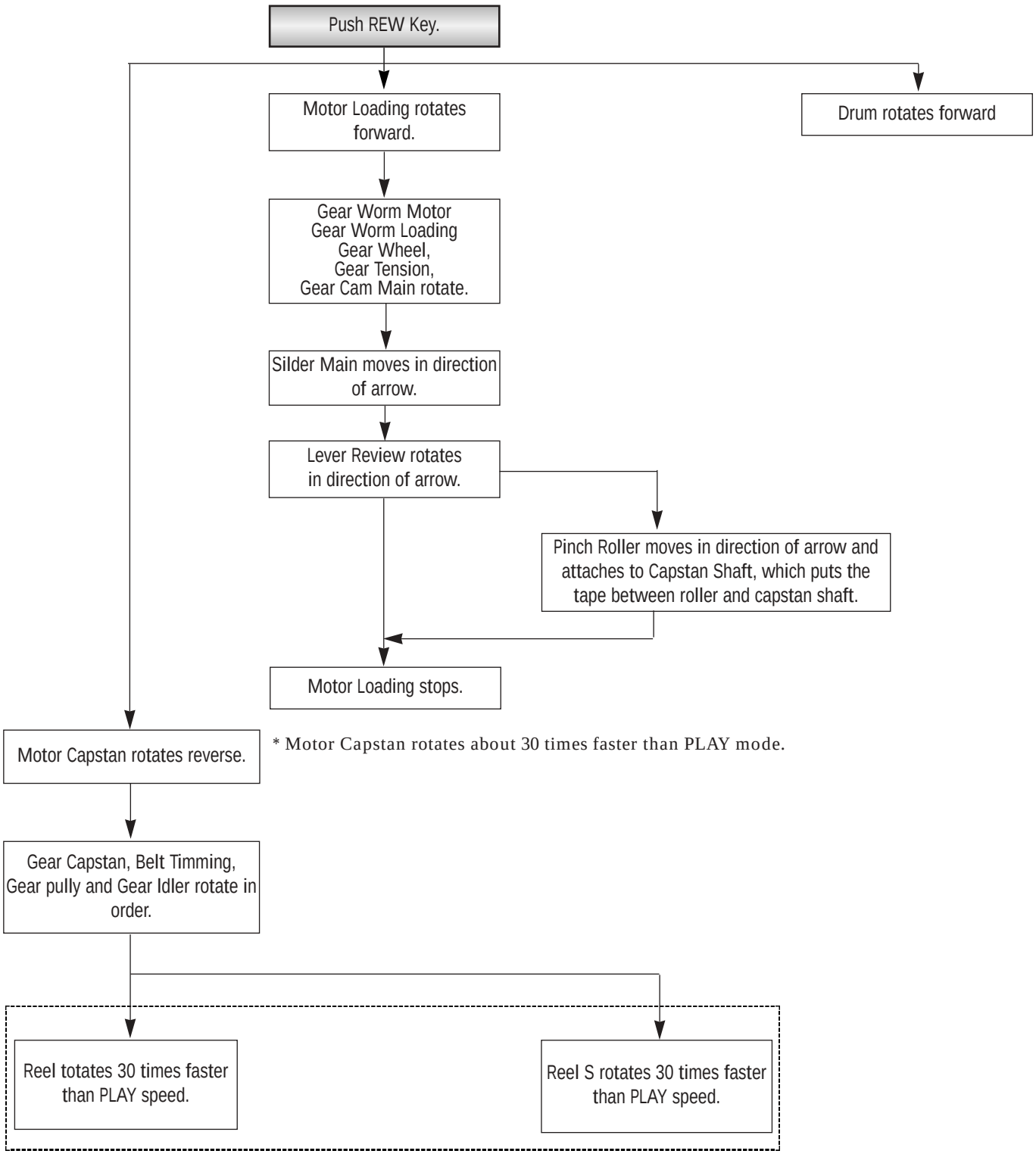

MOTOR LOADING
ARM TENSION
REEL DISK S
DRUM
REEL DISK T
BRAKE T
TOP VIEW
MOTOR CAPSTAN
GEAR CAPSTAN
LEVER REVIEW
BELT TIMMING
SLIDE MAIN
GEAR PULLY
LOADING MOTOR
GEAR WHEEL
GEAR CAM MAIN
GEAR MODE SWITCH
BOTTOM VIEW

Fig. 14-13

14-4-5 Stop γ REW


Push REW Key.
Motor Loading rotates forward.
Drum rotates forward
Gear Worm Motor
Gear Worm Loading
Gear Wheel,
Gear Tension,
Gear Cam Main rotate.
Silder Main moves in direction of arrow.
Lever Review rotates in direction of arrow.
Pinch Roller moves in direction of arrow and attaches to Capstan Shaft, which puts the tape between roller and capstan shaft.
Motor Loading stops.
Motor Capstan rotates reverse.
* Motor Capstan rotates about 30 times faster than PLAY mode.
Gear Capstan, Belt Timming, Gear pully and Gear Idler rotate in order.
Reel totates 30 times faster than PLAY speed.
Reel S rotates 30 times faster than PLAY speed.

* This operation feeds tape 30 times faster than PLAY mode.

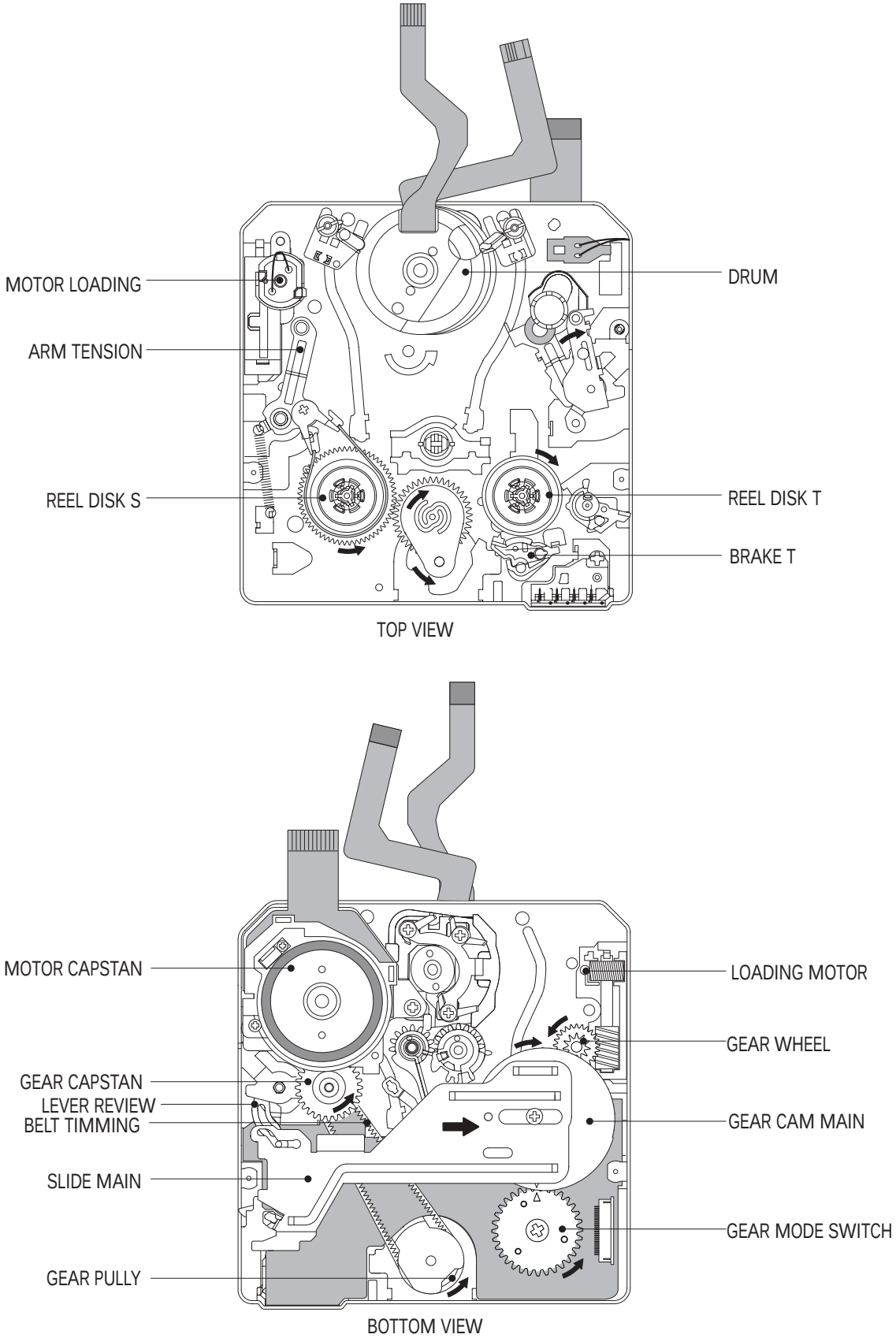
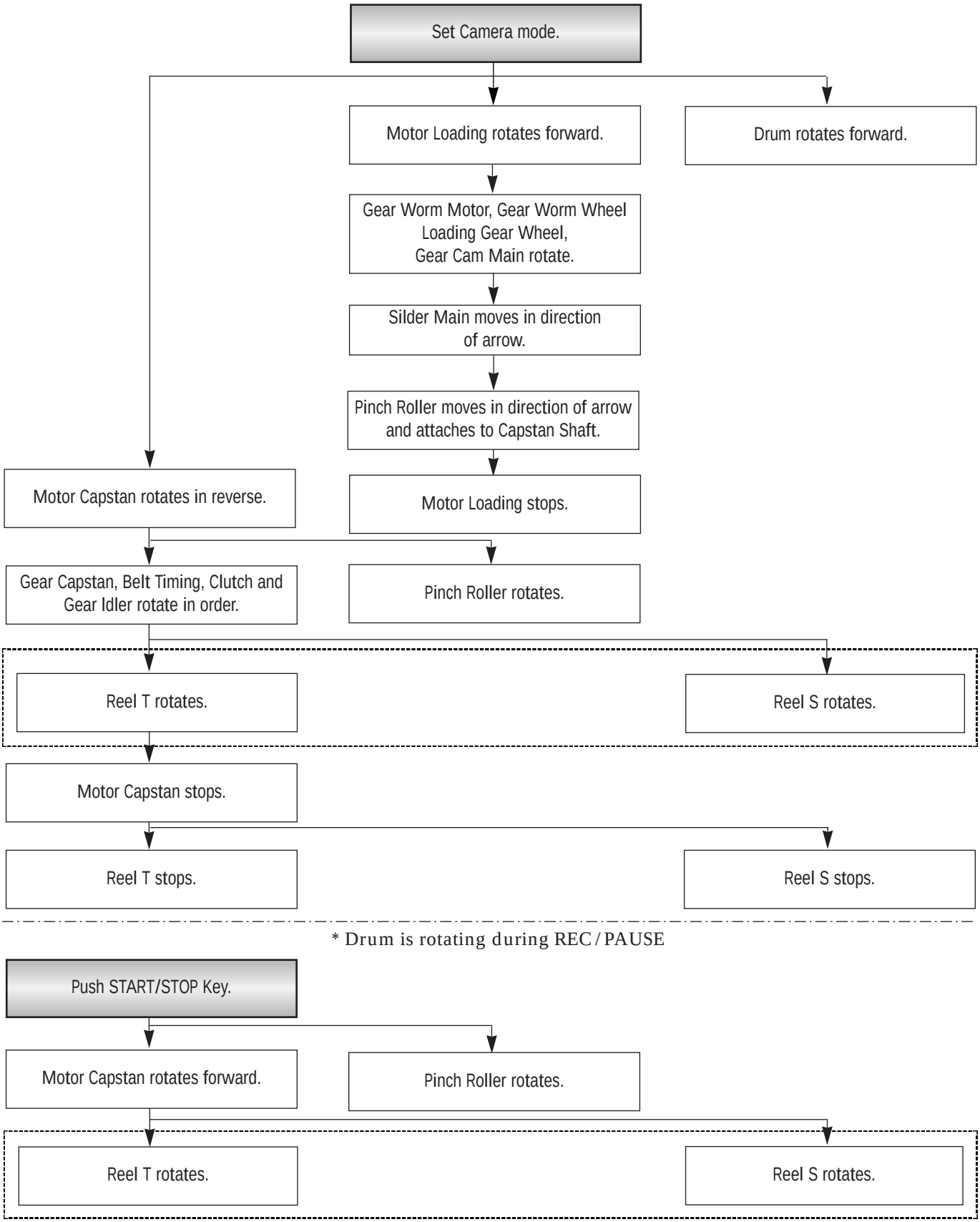

MOTOR LOADING
ARM TENSION
REEL DISK S
DRUM
REEL DISK T
BRAKE T
TOP VIEW
MOTOR CAPSTAN
GEAR CAPSTAN
LEVER REVIEW
BELT TIMMING
SLIDE MAIN
GEAR PULLY
LOADING MOTOR
GEAR WHEEL
GEAR CAM MAIN
GEAR MODE SWITCH
BOTTOM VIEW

Fig. 14-14

14-4-6 Stop γ REC


Set Camera mode.
Motor Loading rotates forward.
Drum rotates forward.
Gear Worm Motor, Gear Worm Wheel
Loading Gear Wheel,
Gear Cam Main rotate.
Silder Main moves in direction
of arrow.
Pinch Roller moves in direction of arrow
and attaches to Capstan Shaft.
Motor Capstan rotates in reverse.
Motor Loading stops.
Gear Capstan, Belt Timing, Clutch and
Gear Idler rotate in order.
Pinch Roller rotates.
Reel T rotates.
Reel S rotates.
Motor Capstan stops.
Reel T stops.
Reel S stops.
* Drum is rotating during REC / PAUSE
Push START/STOP Key.
Motor Capstan rotates forward.
Pinch Roller rotates.
Reel T rotates.
Reel S rotates.
* Tape is wound to Reel T by this operation.

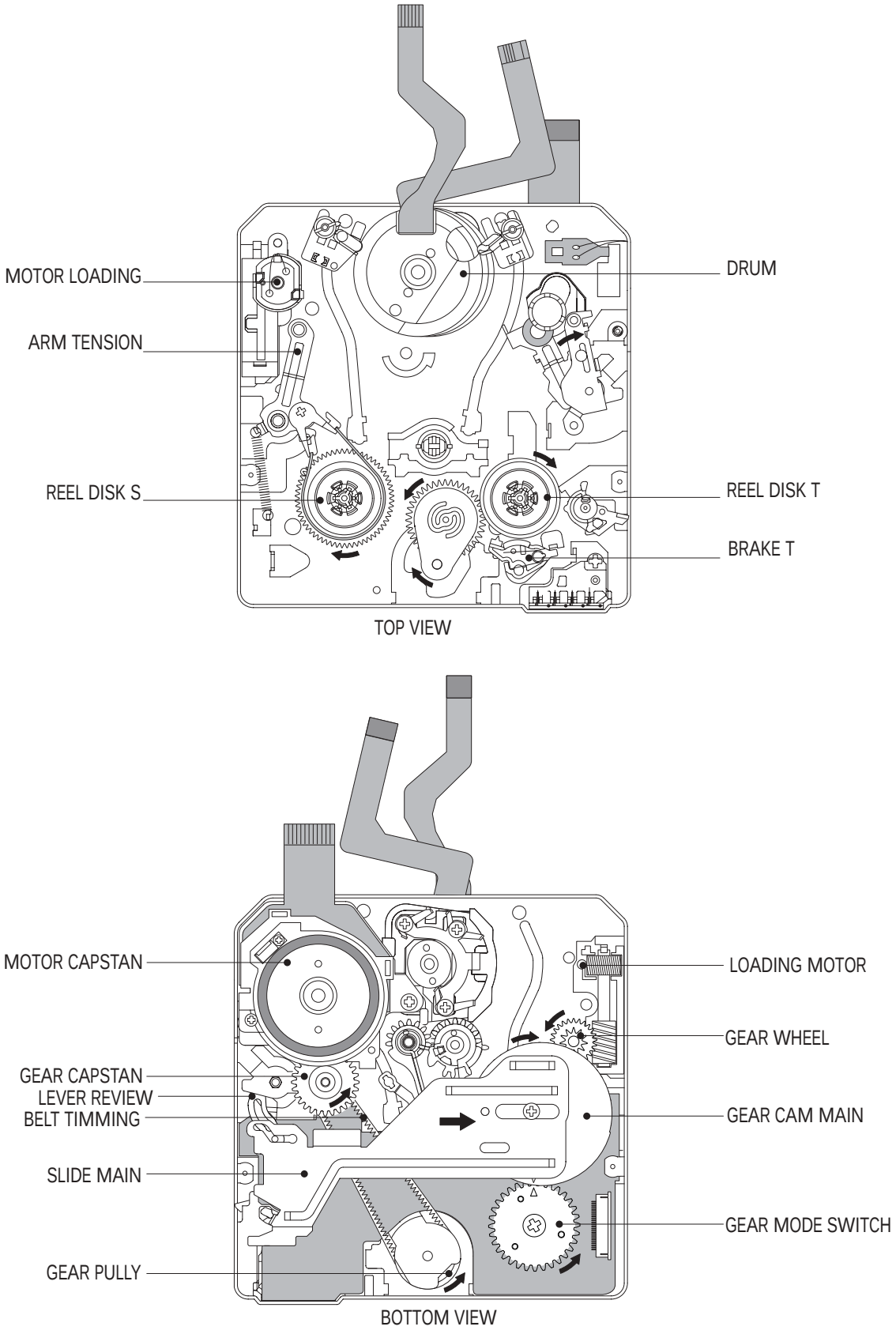
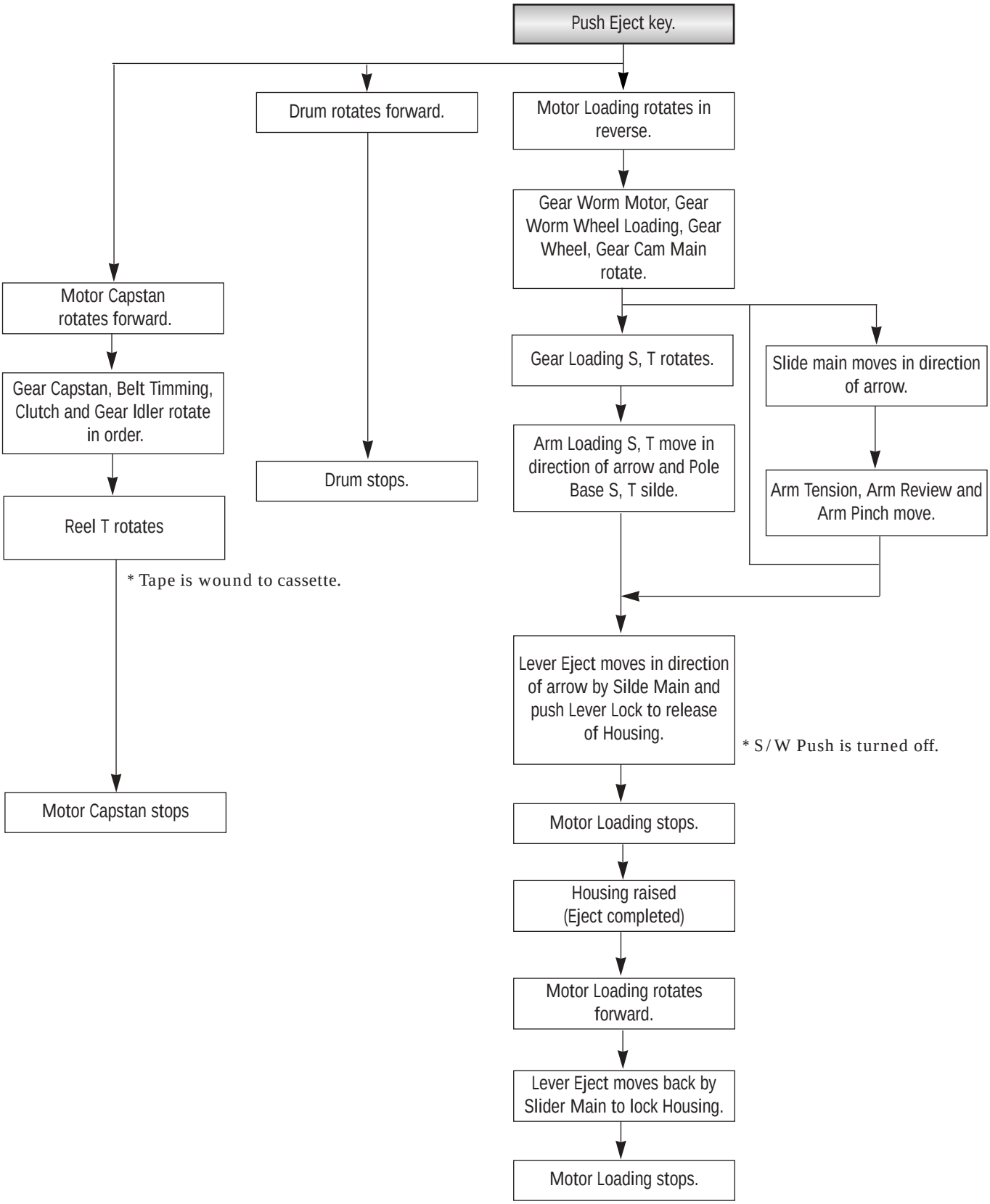
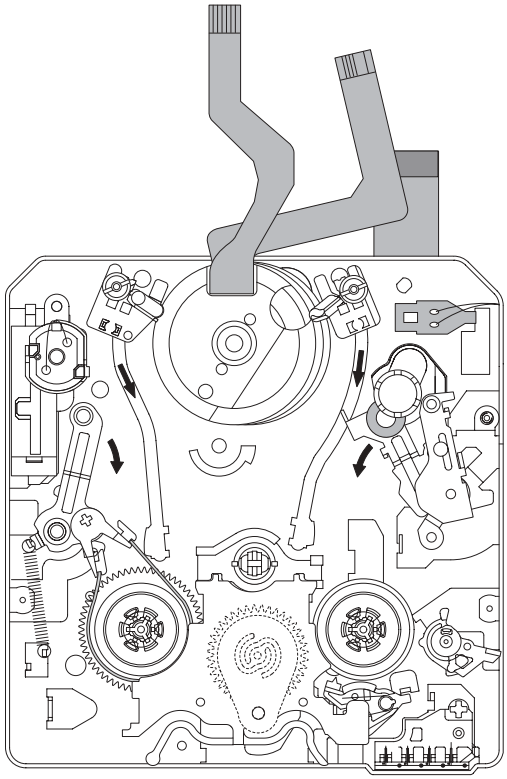

MOTOR LOADING
ARM TENSION
REEL DISK S
DRUM
REEL DISK T
BRAKE T
TOP VIEW
MOTOR CAPSTAN
GEAR CAPSTAN
LEVER REVIEW
BELT TIMMING
SLIDE MAIN
GEAR PULLY
LOADING MOTOR
GEAR WHEEL
GEAR CAM MAIN
GEAR MODE SWITCH
BOTTOM VIEW

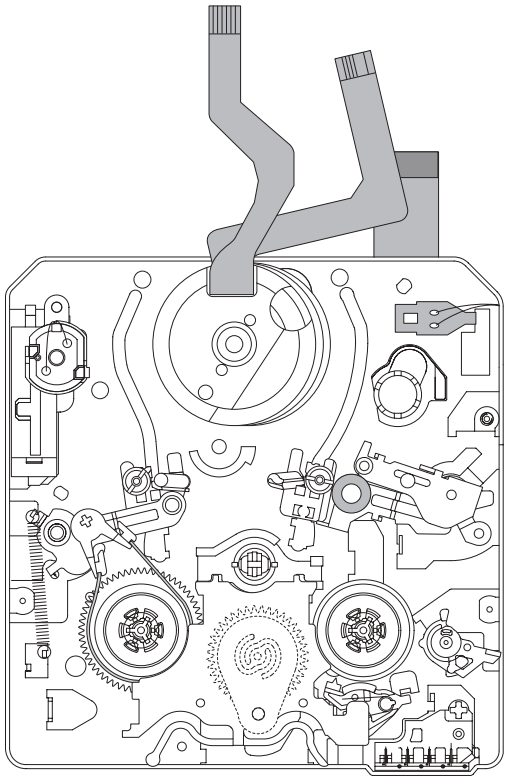
Fig. 14-15

14-4-7 Stop γ Unload


Push Eject key.
Drum rotates forward.
Motor Loading rotates in reverse.
Gear Worm Motor, Gear Worm Wheel Loading, Gear Wheel, Gear Cam Main rotate.
Motor Capstan rotates forward.
Gear Loading S, T rotates.
Slide main moves in direction of arrow.
Gear Capstan, Belt Timming, Clutch and Gear Idler rotate in order.
Arm Loading S, T move in direction of arrow and Pole Base S, T silde.
Drum stops.
Arm Tension, Arm Review and Arm Pinch move.
Reel T rotates
* Tape is wound to cassette.
Lever Eject moves in direction of arrow by Silde Main and push Lever Lock to release of Housing.
* S/W Push is turned off.
Motor Capstan stops
Motor Loading stops.
Housing raised (Eject completed)
Motor Loading rotates forward.
Lever Eject moves back by Slider Main to lock Housing.
Motor Loading stops.



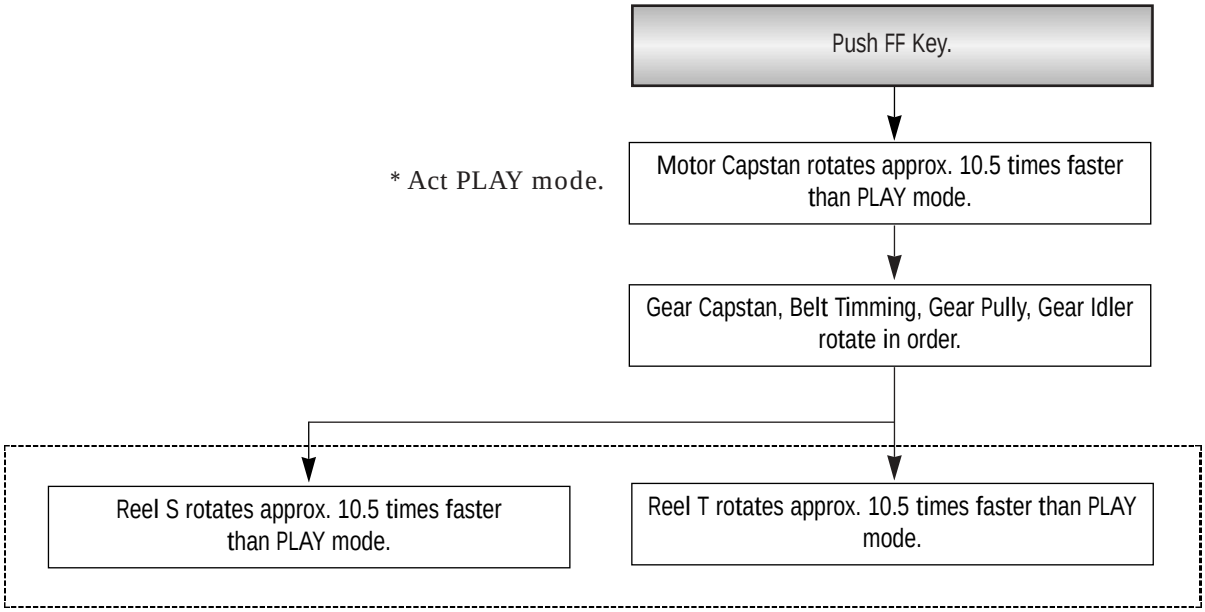
LOADING POSTION



UNLOADING POSTION

Fig. 14-16

14-4-8 CUE


Push FF Key.
* Act PLAY mode.
Motor Capstan rotates approx. 10.5 times faster than PLAY mode.
Gear Capstan, Belt Timming, Gear Pully, Gear Idler rotate in order.
Reel S rotates approx. 10.5 times faster than PLAY mode.
Reel T rotates approx. 10.5 times faster than PLAY mode.

* Tape fed by Motor Capstan is wound up to Reel T.

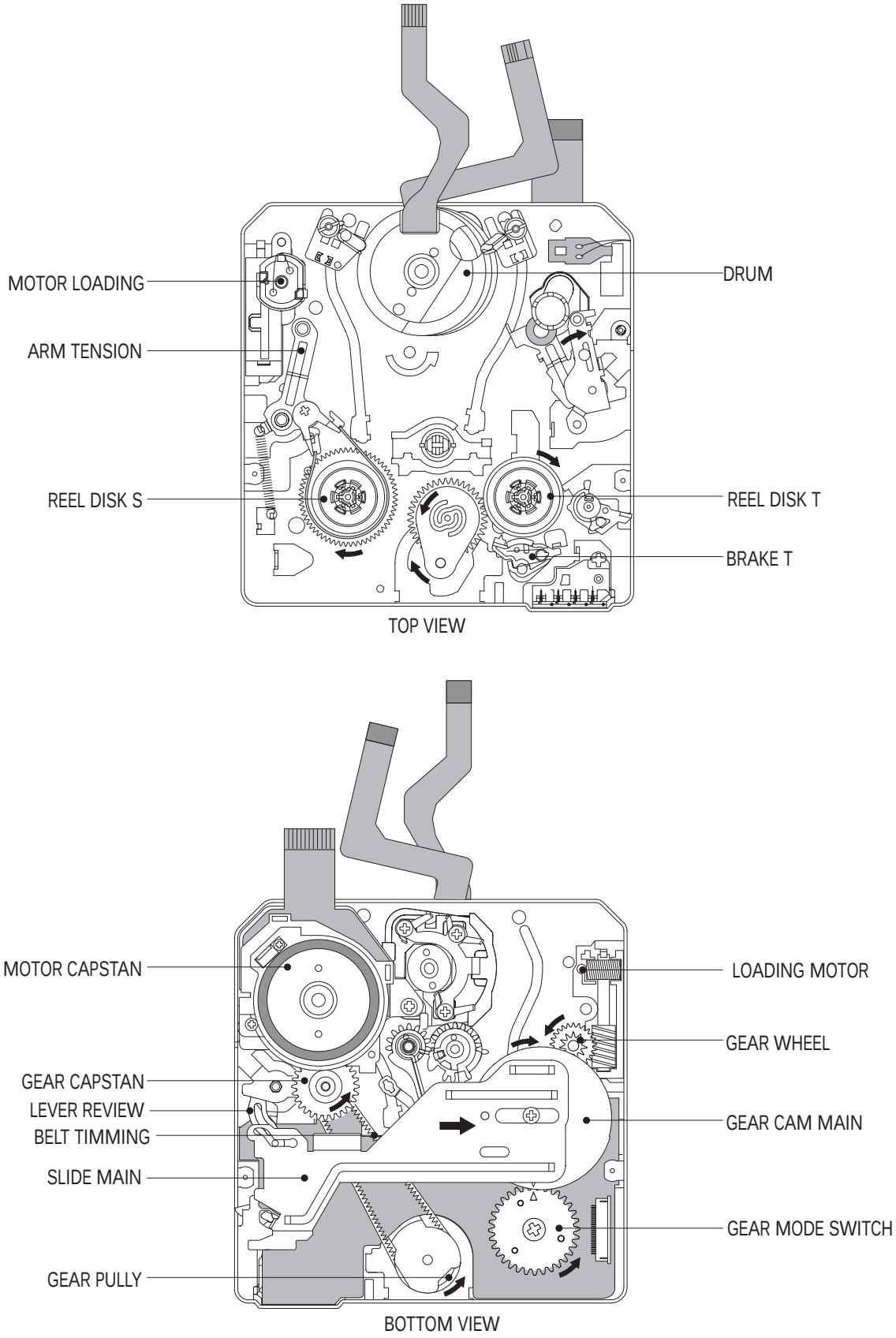
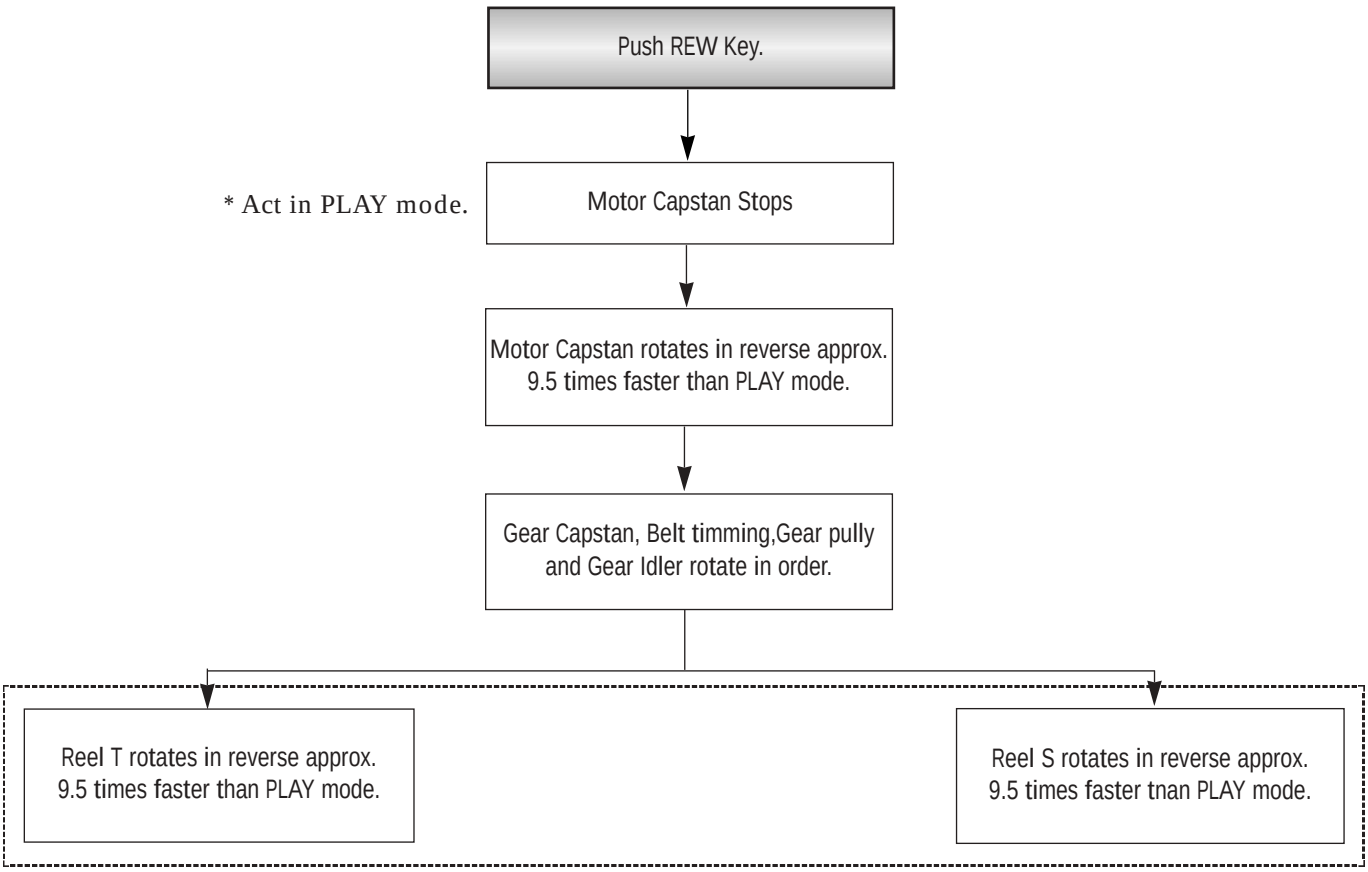

MOTOR LOADING
ARM TENSION
REEL DISK S
DRUM
REEL DISK T
BRAKE T
TOP VIEW
MOTOR CAPSTAN
GEAR CAPSTAN
LEVER REVIEW
BELT TIMMING
SLIDE MAIN
GEAR PULLY
LOADING MOTOR
GEAR WHEEL
GEAR CAM MAIN
GEAR MODE SWITCH
BOTTOM VIEW

Fig. 14-17

14-4-9 RPS


Push REW Key.
* Act in PLAY mode.
Motor Capstan Stops
Motor Capstan rotates in reverse approx.
9.5 times faster than PLAY mode.
Gear Capstan, Belt timming,Gear pully
and Gear Idler rotate in order.
Reel T rotates in reverse approx.
9.5 times faster than PLAY mode.
Reel S rotates in reverse approx.
9.5 times faster tnan PLAY mode.

* Tape fed by Motor Capstan is wound up to Reel S.

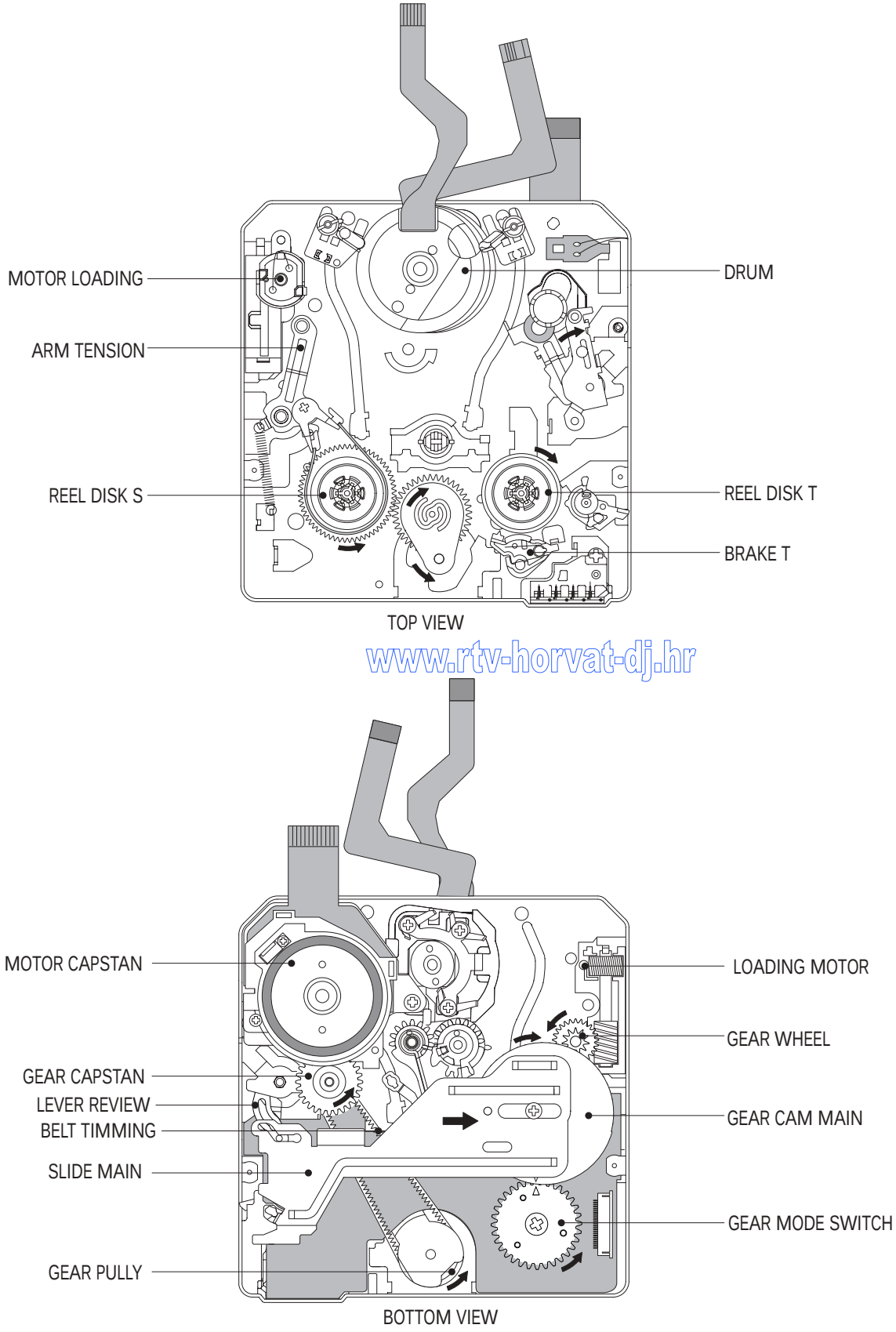


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Fig. 14-18